(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
21 December 2000 (21.12.2000)

PCT

(10) International Publication Number
WO 00/77214 A2

(51) International Patent Classification[7]: C12N 15/31, C07K 14/395, 14/47, C12Q 1/68

(21) International Application Number: PCT/US00/16223

(22) International Filing Date: 14 June 2000 (14.06.2000)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
09/335,032 16 June 1999 (16.06.1999) US

(63) Related by continuation (CON) or continuation-in-part (CIP) to earlier application:
US 09/335,032 (CON)
Filed on 16 June 1999 (16.06.1999)

(71) Applicant *(for all designated States except US)*: **THE JOHN HOPKINS UNIVERSITY** [US/US]; Suite 903, 111 Market Place, Baltimore, MD 21201 (US).

(72) Inventors; and

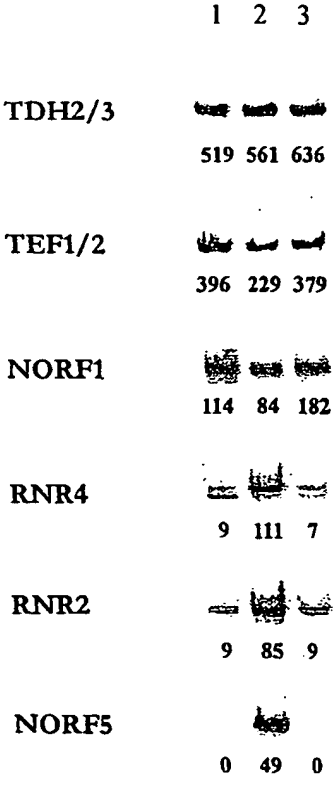
(75) Inventors/Applicants *(for US only)*: **VELCULESCU, Victor** [US/US]; Apartment C, 650 N. Calvert Street, Baltimore, MD 21202 (US). **VOGELSTEIN, Bert** [US/US]; 3700 Breton Way, Baltimore, MD 21208 (US). **KINZLER, Kenneth** [US/US]; 1403 Halkirk Way, Belair, MD 21015 (US).

(74) Agents: **KAGAN, Sarah, A.** et al.; Banner & Witcoff, Ltd., 11th floor, 1001 G Street, N.W., Washington, DC 20001-4597 (US).

(81) Designated States *(national)*: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,

[Continued on next page]

(54) Title: CHARACTERIZATION OF THE YEAST TRANSCRIPTOME



(57) Abstract: Yeast genes which are differentially expressed during the cell cycle are described. They can be used to study, affect, and monitor the cell cycle of a eukaryotic cell. They can be used to obtain human homologs involved in cell cycle regulation. They can be used to identify antifungal agents and other classes of drugs. They can be formed into arrays on solid supports for interrogation of a cell's transcriptome under various conditions.

WO 00/77214 A2

IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

(84) **Designated States** *(regional)*: ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published:

— *Without international search report and to be republished upon receipt of that report.*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

CHARACTERIZATION OF THE YEAST TRANSCRIPTOME

This application is a continuation-in-part of co-pending application Serial No. 09/012,031 filed January 22, 1998, the disclosure of which is incorporated by reference herein. This invention was made with government support under CA57345 awarded by the National Institutes of Health. The government has certain rights in the invention.

TECHNICAL FIELD OF THE INVENTION

This invention is related to the characterization of the expressed genes of the yeast genome. More particularly, it is related to the identification and use of previously unrecognized genes.

BACKGROUND OF THE INVENTION

It is by now axiomatic that the phenotype of an organism is largely determined by the genes expressed within it. These expressed genes can be represented by a "transcriptome," conveying the identity of each expressed gene and its level of expression for a defined population of cells. Unlike the genome, which is essentially a static entity, the transcriptome can be modulated by both external and internal factors. The transcriptome thereby serves as a dynamic link between an organism's genome and its physical characteristics.

The transcriptome as defined above has not been characterized in any eukaryotic or prokaryotic organism, largely because of technological limitations. However, some general features of gene expression patterns were elucidated two decades ago through

RNA-DNA hybridization measurements (Bishop *et al.*, 1974; Hereford and Rosbash, 1977). In many organisms, it was thus found that at least three classes of transcripts could be identified, with either high, medium, or low levels of expression, and the number of transcripts per cell were estimated (Lewin, 1980). These data of course provided little information about the specific genes that were members of each class. Data on the expression levels of individual genes have accumulated as new genes were discovered. However, in only a few instances have the absolute levels of expression of particular genes been measured and compared to other genes in the same cell type.

Description of any cell's transcriptome would therefore provide new information useful for understanding numerous aspects of cell biology and biochemistry.

SUMMARY OF THE INVENTION

It is an object of the present invention to provide isolated DNA molecules and methods of using such molecules to affect the cell cycle and identify candidate drugs. These and other objects of the invention are achieved by providing the art with one or more of the embodiments described below.

According to one embodiment of the invention an isolated DNA molecule is provided. It comprises a coding sequence of a yeast gene selected from the group consisting of NORF genes comprising a SAGE tag as shown in SEQ ID NOS:67-811.

According to another embodiment of the invention a method of using NORF genes is provided. The method is for affecting the cell cycle of a cell. The method comprises the step of administering to a cell an isolated DNA molecule comprising a coding sequence of a NORF gene whose expression varies by at least 10% between any two phases of the cell cycle selected from the group consisting of log phase, S phase, and G2/M.

In yet another embodiment of the invention a method for screening candidate antifungal drugs is provided. The method comprises the steps of contacting a test substance with a yeast cell and monitoring expression of a NORF gene whose expression varies by at least 10% between any two phases of the cell cycle selected from the group consisting of log phase, S phase, and G2/M, wherein a test substance

which modifies the expression of the yeast gene is a candidate antifungal drug.

In still another embodiment of the invention a method for identifying human genes which are involved in cell cycle progression is provided. The method comprises the step of contacting human DNA with a probe which comprises at least 14 contiguous nucleotides of a NORF gene whose expression varies by at least 10% between any two phases of the cell cycle selected from the group consisting of log phase, S phase, and G2/M. A human DNA sequence which hybridizes to the probe is identified as a sequence of a candidate human gene which is involved in cell cycle progression.

The present invention provides probes which comprise at least 14 contiguous nucleotides of a NORF gene comprising a SAGE tag as shown in SEQ ID NOS:67-811.

The invention also provides an array of probes on a solid support. At least one probe in the array comprises at least 14 contiguous nucleotides of a NORF gene comprising a SAGE tag as shown in SEQ ID NOS:67-811.

Still another embodiment of the invention is a method of identifying a candidate drug as a member of a class of drugs having a characteristic effect on gene expression in a yeast cell. A yeast cell is contacted with a candidate drug. Expression of at least one NORF gene whose expression is affected by the class of drugs is monitored in the yeast cell. Detection of a difference in expression of the at least one NORF gene relative to expression in the absence of the candidate drug identifies the candidate drug as a member of the class of drugs.

These and other embodiments of the invention which will be apparent to those of skill in the art upon reading the detailed disclosure provided below, make available to the art hitherto unrecognized genes, and information about the expression of genes globally at the organismal level.

BRIEF DESCRIPTION OF THE DRAWINGS

Figure 1. Schematic of SAGE Method and Genome Analysis. In applying SAGE to the analysis of yeast gene expression patterns, the 3' most NlaIII site was used to define a unique position in each transcript and to provide a site for ligation of

a linker with a BsmFI site. The type IIs enzyme BsmFI, which cleaves a defined distance from its non-palindromic recognition site, was then used to generate a 15bp SAGE tag (designated by the black arrows), which includes the NlaIII site. Automated sequencing of concatenated SAGE tags allowed the routine identification of about a thousand tags per 36-lane sequencing gel. Once sequenced, the abundance of each SAGE tag was calculated, and each tag was used to search the entire yeast genome to identify its corresponding gene. The lower panel shows a small region of Chromosome 15. Gray arrows indicate all potential SAGE tags (NlaIII sites) and black arrows indicate 3' most SAGE tags. The total number of tags observed for each potential tag is indicated above (+ strand) or below (- strand) the tag. As expected, the observed SAGE tags were associated with the 3' end of expressed genes.

Figure 2. Sampling of Yeast Gene Expression. Analysis of increasing amounts of ascertained tags reveals a plateau in the number of unique expressed genes. Triangles represent genes with known functions, squares represent genes predicted on the basis of sequence information, and circles represent total genes.

Figure 3. Virtual Rot. (A) Abundance Classes in the Yeast Transcriptome. The transcript abundance is plotted in reverse order on the abscissa, whereas the fraction of total transcripts with at least that abundance is plotted on the ordinate. The dotted lines identify the three components of the curve, 1, 2, and 3. This is analogous to a Rot curve derived from reassociation kinetics where the product of initial RNA concentration and time is plotted on the abscissa, and the percent of labeled cDNA that hybridizes to excess mRNA is plotted on the ordinate. (B) Comparison of Virtual Rot and Rot Components. Transitions and data from virtual Rot components were calculated from the data in Figure 3A, while data for Rot components were obtained from Hereford and Rosbash, 1977.

Figure 4. Chromosomal Expression Map for S. cerevisiae. Individual yeast genes were positioned on each chromosome according to their open reading frame (ORF) start coordinates. Abundance levels of tags corresponding to each gene are displayed on the vertical axis, with transcription from the + strand indicated above the abscissa and that from the - strand indicated below. Yellow bands at ends of the expanded chromosome represent telomeric regions that are undertranscribed (see text

for details).

Figure 5. Northern Blot Analysis of Representative Genes. TDH2/3, TEF1/2 and NORF1, are expressed relatively equally in all three states (lane 1, G2/M arrested; lane 2, S phase arrested; lane 3, log phase), while RNR4, RNR2 , and NORF5 are highly expressed in S-phase arrested cells. The expression level observed by SAGE (number of tags) is noted below each lane and was highly correlated with quantitation of the Northern blot by PhosphorImager analysis (r^2=0.97).

TABLE LEGENDS

Table 1. Highly Expressed Genes. Tag represents the 10 bp SAGE tag adjacent to the NlaIII site; Gene represents the gene or genes corresponding to a particular tag (multiple genes that match unique tags are from related families, with an average identity of 93%); Locus and Description denote the locus name and functional description of each ORF, respectively; Copies/cell represents the abundance of each transcript in the SAGE library, assuming 15,000 total transcripts per cell and 60,633 ascertained transcripts.

Table 2. Expression of Putative Coding Sequences. Table column headings are the same as for Table 1.

Table 3. Expression of the most abundant NORF genes. SAGE Tag, Locus, and Copies/cell are the same as for Table 1; Chr and Tag Pos denote the chromosome and position of each tag; ORF Size denotes the size of the ORF corresponding to the indicated tag. In each case, the tag was located within or less than 250 bp 3' of the NORF.

Table 4. Expression of NORF genes. SAGE tag and Copies/cell are the same as for Table 1. Chr and Tag Pos denote the chromosome and position of each tag.

Table 5. Gene expression changes in different cell cycle phases. L denotes log phase; S denotes synthesis phase; G2/M denotes the mitotic phase. Tag Sequence represents the 10 bp SAGE tag adjacent to the NlaIII site; "ratio L to S" denotes the ratio of expression in log phase to expression in synthesis phase; "ratio S to G2/M" denotes the ratio of expression in synthesis phase to expression in G2/M phase; "ratio G2/M to L" denotes the ratio of expression in G2/M to log phase. #DIV/0! indicates

an increase in expression from 0; a value of 0 indicates a decrease in expression to 0; a value of 1 indicates no change; a value less than 1 indicates a decrease in expression; and a value greater than 1 indicates an increase in expression.

Table 6. Intergenic open reading frames that contain or are adjacent to observed SAGE tags. Copies/cell represents abundance of each mRNA transcript as in Table 1. Positive expression level indicates the tag is on the + strand of the chromosome; Negative expression level indicates the tag is on the - strand.

DETAILED DESCRIPTION

It is a discovery of the present invention that certain hitherto unknown genes (the NORFs) exist and are expressed in yeast. These genes, as well as other previously identified and previously postulated genes, can be used to study, monitor, and affect phases of cell cycle. The present invention identifies which genes are differentially expressed during the cell cycle. Differentially expressed genes can be used as markers of phases of the cell cycle. They can also be used to affect a change in the phase of the cell cycle. In addition, they can be used to screen for drugs which affect the cell cycle, by affecting expression of the genes. Human homologs of these eukaryotic genes are also presumed to exist, and can be identified using the yeast genes as probes or primers to identify the human homologs.

New genes termed NORFs (not previously assigned open reading frames) have been found. They are uniquely identified by their SAGE tags. In addition their entire nucleotide sequences are known and publicly available. In general, these were not previously identified as genes due to their small size. However, they have now been found to be expressed.

Differentially expressed yeast genes are those whose expression varies by a statistically significant difference (to greater than 95% confidence level) within different growth phases, particularly log phase, S phase, and G2/M. Preferably the difference is at least 10%, 25%, 50%, or 100%. In some cases, differentially expressed genes are not expressed at detectable levels in one or more cell cycle phases as determined by SAGE analysis. Genes which have been found to have differential expression characteristics include: NORF Nº 1, 2, 4, 5, 6, 17, 25, 27, TEF1/TEF2,

EN02, ADH1, ADH2, PGK1, CUP1A/CUP1B, PYK1, YKL056C, YMR116C, YEL033W, YOR182C, YCR013C, ribonucleotide reductase 2 and 4, and YJR085C. Differential expression can be detected by any means known in the art, such as hybridization to specific probes or immunological assays.

Isolated DNA molecules according to the invention contain less than a whole chromosome and can be genomic or cDNA, *i.e.*, lacking introns. Isolated DNA molecules can comprise a yeast gene or a coding sequence of a yeast gene involved in cell cycle progression, such as NORF genes which comprise SAGE tags as shown in SEQ ID NOS:67-811. Isolated DNA molecules which comprise yeast genes or coding sequences of yeast genes comprising SAGE tags as shown in SEQ ID NOS:37-12,203 are also isolated DNA molecules of the invention. Isolated DNA molecules can also consist of a yeast gene or a coding sequence of a yeast gene which comprises a SAGE tag as shown in SEQ ID NOS:37-12,203 or 67-811.

Any technique for obtaining a DNA of known sequence may be used to obtain isolated DNA molecules of the invention. Preferably they are isolated free of other cellular components such as membrane components, proteins, and lipids. They can be made by a cell and isolated, or synthesized using PCR or an automatic synthesizer. Methods for purifying and isolating DNA are routine and are known in the art.

To administer yeast genes to cells, any DNA delivery techniques known in the art may be used, without limitation. These include liposomes, transfection, mating, transduction, transformation, viral infection, electroporation. Vectors for particular purposes and characteristics can be selected by the skilled artisan for their known properties. Cells which can be used as gene recipients are yeast and other fungi, mammalian cells, including humans, and bacterial cells.

Antifungal drugs can be identified using yeast cells as described herein. Expression of a differentially expressed NORF gene can be monitored by any means known in the art. When a test substance modifies the expression of such a differentially expressed gene, for example by increasing or decreasing its expression, it is a candidate drug for affecting the growth properties of fungi and may be useful as an antifungal agent. Expression of more than one NORF gene can be monitored. For example, expression of 2, 3, 4, 5, 10, 15, 20, 30, 40, 50, 60, 75, 100, 150, 250,

300, 350, 400, 450, or 500 or more NORF genes can be monitored in single or multiple assays.

Because differentially expressed genes are likely to be involved in cell cycle progression, it is likely that these genes are conserved among species. The differentially expressed NORF genes identified by the present invention can be used to identify homologs in humans and other mammals by contacting DNA from these mammals with a probe which comprises at least 10 contiguous nucleotides of a differentially expressed NORF gene. The DNA can be genomic or cDNA, as is known in the art. Means for identifying homologous genes among different species are well known in the art. Briefly, stringency of hybridization can be reduced so that imperfectly matching sequences hybridize. This can be in the context of *inter alia* Southern blots, Northern blots, colony hybridization or PCR. Any hybridization technique which is known in the art can be used. A DNA sequence which hybridizes to the probe is identified as a sequence of a candidate gene which is involved in cell cycle expression.

Probes according to the present invention are isolated DNA molecules which have at least 10, and preferably at least 12, 14, 16, 18, 20, or 25 contiguous nucleotides of a particular NORF gene or other differentially expressed gene. The probes may or may not be labeled. They may be used, for example, as primers for PCR assays, or for detection of gene expression for Southern or Northern blots or *in situ* hybridization. Preferably the probes are immobilized on a solid support. The solid support can be any surface to which a probe can be attached. Suitable solid supports include, but are not limited to, glass or plastic slides, tissue culture plates, microtiter wells, tubes, or particles such as beads, including but not limited to latex, polystyrene, or glass beads. Any method known in the art can be used to attach the a probe to the solid support, including use of covalent and non-covalent linkages, passive absorption, or pairs of binding moieties attached respectively to the probe and the solid support.

More preferably, probes are present on an array so that multiple probes can simultaneously hybridize to a single biological sample. The probes can be spotted onto the array or synthesized *in situ* on the array. See Lockhart et. al., **Nature**

Biotechnology, Vol. 14, December 1996, "Expression monitoring by hybridization to high-density oligonucleotide arrays." A single array contains at least one NORF probe, but can contain more than 100, 500 or even 1,000 different probes in discrete locations. If desired, one or more NORF probe(s) present on the array can be nucleotide sequences from a NORF gene which is differentially expressed during the cell cycle.

Genes identified by the present invention which are differentially expressed during the cell cycle can also be used to obtain gene expression profiles characteristic of the response of yeast genes of a yeast cell to a particular drug or class of drugs. Classes of drugs of particular interest for which gene expression profiles can be generated include those drugs which affect cell cycle or other cell processes, such as chemotherapeutic agents. If desired, gene expression profiles characteristic of more than one drug of a particular class can be generated and used to make a composite gene expression profile. For example, microtubule poison drugs such as vinblastin, taxol, vincristine, and taxotere can be used to generate gene expression profiles characteristic of microtubule poisons.

To generate a gene expression profile characteristic of a particular drug or class of drugs, a yeast cell is contacted with a particular drug or a member of a particular class of drugs. Expression of at least one yeast gene is monitored, either before and after contacting or in the contacted cell and in another yeast cell which has not been contacted with the drug. Genes which are monitored can be any yeast gene, including NORFS. Preferably, these genes are differentially expressed during the cell cycle. For example, yeast genes can be selected from genes comprising the SAGE tags shown in Tables 3, 4, 5, and 6 (SEQ ID NOS:67-12,203). If desired, genes such as NORF Nº 1, 2, 4, 5, 6, 17, 25, or 27, TEF1/TEF2, EN02, ADH1, ADH2, PGK1, CUP1A/CUP1B, PYK1, YKL056C, YMR116C, YEL033W, YOR182C, YCR013C, ribonucleotide reductase 2 and 4, and YJR085C, can be used for monitoring alterations in gene expression.

The expression of any number of these genes, such as 1, 2, 3, 4, 5, 10, 15, 20, 25, 30, 40, 50, 60, 75, 100, 150, 250, 500, 1000, 2000, 3000, 4000, 5000, or 5,500 genes, can be measured. It is particularly convenient to monitor expression of the

differentially expressed genes using nucleic acids which are immobilized on a solid support or in an array, such as the gene arrays described above.

Many genes, particularly cell cycle genes, are likely to be conserved between yeast and mammals, including humans. Thus, gene expression profiles characteristic of a drug or class of drugs can be used to predict the effects of candidate drugs on human cells, by identifying the candidate drug as a member of a class of drugs whose characteristic gene expression profile is known. The candidate drugs can be pharmacologic agents already known in the art or can be compounds previously unknown to have any pharmacological activity. The candidate drugs can be naturally occurring or designed in the laboratory. They can be isolated from microorganisms, animals, or plants, and can be produced recombinantly or synthesized by chemical methods known in the art.

The effect of a candidate drug on expression of at least one gene whose expression is affected by the class of drugs is monitored. A gene expression profile obtained using the candidate drug which is similar to a gene expression profile for a particular drug or class of drugs identifies the candidate drug as a member of that class of drugs.

The effect of modifying particular substituents of a known drug or of a candidate drug can be similarly tested. Such methods are useful for determining whether alterations intended, for example, to increase solubility or absorption of a particular drug will have an unintended and possibly deleterious effect on genes which are differentially expressed during the cell cycle.

The above disclosure generally describes the present invention. A more complete understanding can be obtained by reference to the following specific examples which are provided herein for purposes of illustration only, and are not intended to limit the scope of the invention.

EXAMPLE

Summary

We have analyzed the set of genes expressed from the yeast genome, herein called the transcriptome, using serial analysis of gene expression (SAGE). Analysis

of 60,633 transcripts revealed 4,665 genes, with expression levels ranging from 0.3 to over 200 transcripts per cell. Of these genes, 1,981 had known functions, while 2,684 were previously uncharacterized. Integration of positional information with gene expression data allowed the generation of chromosomal expression maps, identifying physical regions of transcriptional activity, and identified genes that had not been predicted by sequence information alone. These studies provide insight into global patterns of gene expression in yeast and demonstrate the feasibility of genome-wide expression studies in eukaryotes.

Results

Characteristics and Rationale of SAGE Approach

Several methods have recently been described for the high throughput evaluation of gene expression (Nguyen *et al.*, 1995; Schena *et al.*, 1995; Velculescu *et al.*, 1995). We used SAGE (Serial Analysis of Gene Expression) because it can provide quantitative gene expression data without the prerequisite of a hybridization probe for each transcript. The SAGE technology is based on two basic principles (Figure 1). First, a short sequence tag (9-11 bp) contains sufficient information to uniquely identify a transcript, provided that it is derived from a defined location within that transcript. Second, many transcript tags can be concatenated into a single molecule and then sequenced, revealing the identity of multiple tags simultaneously. The expression pattern of any population of transcripts can be quantitatively evaluated by determining the abundance of individual tags and identifying the gene corresponding to each tag.

Genome-wide expression

In order to maximize representation of genes involved in normal growth and cell-cycle progression, SAGE libraries were generated from yeast cells in three states: log phase, S phase arrested and G2/M phase arrested. In total, SAGE tags corresponding to 60,633 total transcripts were identified (including 20,184 from log phase, 20,034 from S phase arrested, and 20,415 from G2/M phase arrested cells). Of these tags, 56,291

tags (93%) precisely matched the yeast genome, 88 tags matched the mitochondrial genome, and 91 tags matched the 2 micron plasmid.

The number of SAGE tags required to define a yeast transcriptome depends on the confidence level desired for detecting low abundance mRNA molecules. Assuming the previously derived estimate of 15,000 mRNA molecules per cell (Hereford and Rosbash, 1977), 20,000 tags would represent a 1.3 fold coverage even for mRNA molecules present at a single copy per cell, and would provide a 72% probability of detecting such transcripts (as determined by Monte Carlo simulations). Analysis of 20,184 tags from log phase cells identified 3,298 unique genes. As an independent confirmation of mRNA copy number per cell, we compared the expression level of *SUP44/RPS4*, one of the few genes whose absolute mRNA levels have been reliably determined by quantitative hybridization experiments (Iyer and Struhl, 1996), with expression levels determined by SAGE. *SUP44/RPS4* was measured by hybridization at 75 +/- 10 copies/cell (Iyer and Struhl, 1996), in good accord with the SAGE data of 63 copies/cell, suggesting that the estimate of 15,000 mRNA molecules per cell was reasonably accurate. Analysis of SAGE tags from S phase arrested and G2/M phase arrested cells revealed similar expression levels for this gene (range 52 to 55 copies/cell), as well as for the vast majority of expressed genes. As less than 1% of the genes were expressed at dramatically different levels among these three states (see below), SAGE tags obtained from all libraries were combined and used to analyze global patterns of gene expression.

Analysis of ascertained tags at increasing increments revealed that the number of unique transcripts plateaued at ~60,000 tags (Figure 2). This suggested that generation of further SAGE tags would yield few additional genes, consistent with the fact that sixty thousand transcripts represented a four-fold redundancy for genes expressed as low as 1 transcript per cell. Likewise, Monte Carlo simulations indicated that analysis of 60,000 tags would identify at least one tag for a given transcript 97% of the time if its expression level was one copy per cell.

The 56,291 tags that precisely matched the yeast genome represented 4,665 different genes. This number is in agreement with the estimate of 3,000 to 4,000 expressed genes obtained by RNA-DNA reassociation kinetics (Hereford and

Rosbash, 1977). These expressed genes included 85% of the genes with characterized functions (1,981 of 2,340), and 76% of the total genes predicted from analysis of the yeast genome (4,665 of 6,121). These numbers are consistent with a relatively complete sampling of the yeast transcriptome given the limited number of physiological states examined and the large number of genes predicted solely on the basis of genomic sequence analysis.

The transcript expression per gene was observed to vary from 0.3 to over 200 copies per cell. Analysis of the distribution of gene expression levels revealed several abundance classes that were similar to those observed in previous studies using reassociation kinetics. A "virtual Rot" of the genes observed by SAGE (Figure 3A) identified three main components of the transcriptome with abundances ranging over three orders of magnitude. A Rot curve derived from RNA-cDNA reassociation kinetics also contained three main components distributed over a similar range of abundances (Hereford and Rosbash, 1977). Although the kinetics of reassociation of a particular class of RNA and cDNA may be affected by numerous experimental variables, there were striking similarities between Rot and virtual Rot analyses (Figure 3B). Because Rot analysis may not detect all transcripts of low abundance (Lewin, 1980), it is not surprising that SAGE revealed both a larger total number of expressed genes and a higher fraction of the transcriptome belonging to the low abundance transcript class.

Integration of Expression Information with the Genomic Map

The SAGE expression data could be integrated with existing positional information to generate chromosomal expression maps (Figure 4). These maps were generated using the sequence of the yeast genome and the position coordinates of ORFs obtained from the Stanford Yeast Genome Database. Although there were a few genes that were noted to be physically proximal and have similarly high levels of expression, there did not appear to be any clusters of particularly high or low expression on any chromosome. Genes like histones H3 and H4, which are known to have coregulated divergent promoters and are immediately adjacent on chromosome 14 (Smith and Murray, 1983), had very similar expression levels (5 and 6 copies per cell,

respectively). The distribution of transcripts among the chromosomes suggested that overall transcription was evenly dispersed, with total transcript levels being roughly linearly related to chromosome size (r^2 =0.85, data not shown). However, regions within 10 kb of telomeres appeared to be uniformly undertranscribed, containing on average 3.2 tags per gene as compared with 12.4 tags per gene for non-telomeric regions (Figure 4). This is consistent with the previously described observations of "telomeric silencing" in yeast (Gottschling *et al.*, 1990). Recent studies have reported telomeric position effects as far as 4 kb from telomere ends (Renauld *et al.*, 1993).

Gene Expression Patterns

Table 1 lists the 30 most highly expressed genes, all of which are expressed at greater than 60 mRNA copies per cell. As expected, these genes mostly correspond to well characterized enzymes involved in energy metabolism and protein synthesis and were expressed at similar levels in all three growth states (Examples in Figure 5). Some of these genes, including *ENO2* (McAlister and Holland, 1982), *PDC1* (Schmitt *et al.*, 1983), *PGK1* (Chambers *et al.*, 1989), *PYK1* (Nishizawa *et al.*, 1989), and *ADH1* (Denis *et al.*, 1983), are known to be dramatically induced in the glucose-rich growth conditions used in this study. In contrast, glucose repressible genes such as the *GAL1/GAL7/GAL10* cluster (St John and Davis, 1979), and *GAL3* (Bajwa *et al.*, 1988) were observed to be expressed at very low levels (0.3 or fewer copies per cell).

As expected for the yeast strain used in this study, mating type a specific genes, such as the a factor genes (*MFA1, MFA2*) (Michaelis and Herskowitz, 1988), and alpha factor receptor (*STE2*) (Burkholder and Hartwell, 1985) were all observed to be expressed at significant levels (range 2 to 10 copies per cell), while mating type alpha specific genes (*MFα1, MFα2, STE3*) (Hagen *et al.*, 1986; Kurjan and Herskowitz, 1982; Singh *et al.*, 1983) were observed to be expressed at very low levels (<0.3 copies/cell).

Three of the highly expressed genes in Table 1 had not been previously characterized. One contained an ORF with predicted ribosomal function, previously identified only by genomic sequence analysis. Analyses of all SAGE data suggested that there were 2,684 such genes corresponding to uncharacterized ORFs which were

transcribed at detectable levels. The 30 most abundant of these transcripts were observed more than 30 times, corresponding to at least 8 transcripts per cell (Table 2). The other two highly expressed uncharacterized genes corresponded to ORFs not predicted by analysis of the yeast genome sequence (NORF = Nonannotated ORF). Analyses of SAGE data suggested that there were at least 160 *NORF* genes transcribed at detectable levels. The 30 most abundant of these transcripts were observed at least 9 times (Table 3 and examples in Figure 5).

Interestingly, one of the *NORF* genes (*NORF5*) was only expressed in S phase arrested cells and corresponded to the transcript whose abundance varied the most in the three states analyzed (> 49 fold, Figure 5). Comparison of S phase arrested cells to the other states also identified greater than 9 fold elevation of the *RNR2* and *RNR4* transcripts (Figure 5). Induction of these ribonucleoside reductase genes is likely to be due to the hydroxyurea treatment used to arrest cells in S phase (Elledge and Davis, 1989). Likewise, comparison of G2/M arrested cells identified elevation of RBL2 and dynein light chain, both microtubule associated proteins (Archer *et al.*, 1995; Dick *et al.*, 1996). As with the RNR inductions, these elevated levels seem likely to be related to the nocodazole treatment used to arrest cells in the G2/M phase. While there were many relatively small differences between the states (for example, *NORF1*, Figure 5), overall comparison of the three states revealed surprisingly few dramatic differences; there were only 29 transcripts whose abundance varied more than 10 fold among the three different states analyzed (Tables 4 and 5).

A comprehensive analysis for NORF genes was performed using the SAGE data. Yeast genome intergenic regions were defined as regions outside annotated ORFs or the 500bp region downstream of annotated ORFs (yeast genome sequence and tables of annotated ORFs were obtained from SGD at http://genome-www.stanford.edu/Saccharomyces/). Based on sequence analysis a total of 9524 putative ORFs of 25-99 amino acids were present in the intergenic regions; 510 of these ORFs contain or are adjacent to observed SAGE tags (Table 6). Of the 60,633 SAGE tags analyzed, there were 302 unique SAGE tags either within or adjacent to intergenic ORFs (100bp upstream or 500bp downstream of the ORF) (Table 6). Note that in some cases, more than one NORF contains or is adjacent to the

SAGE tag. These tags matched the genome uniquely, were in the correct orientation, and were expressed at levels greater than 0.3 transcript copies per cell.

The expression level for each NORF shown in Table 6 corresponds to the number of mRNA transcript copies per cell. If the expression level is positive it means that the tag is on the + strand of the chromosome; if negative, the tag is on the – strand of the chromosome.

Discussion

Analysis of a yeast transcriptome affords a unique view of the RNA components defining cellular life. Comparison of gene expression patterns from altered physiologic states can provide insight into genes that are important in a variety of processes. Comparison of transcriptomes from a variety of physiologic states should provide a minimum set of genes whose expression is required for normal vegetative growth, and another set composed of genes that will be expressed only in response to specific environmental stimuli, or during specialized processes. For example, recent work has defined a minimal set of 250 genes required for prokaryotic cellular life (Mushegian and Koonin, 1996). Examination of the yeast genome readily identified homologous genes for 196 of these, over 90% of which were observed to be expressed in the SAGE analysis. Detailed analyses of yeast transcriptomes, as well as transcriptomes from other organisms, should ultimately allow the generation of a minimal set of genes required for eukaryotic life.

Like other genome-wide analyses, SAGE analysis of yeast transcriptomes has several potential limitations. First, a small number of transcripts would be expected to lack an NlaIII site and therefore would not be detected by our analysis. Second, our analysis was limited to transcripts found at least as frequently as 0.3 copies per cell. Transcripts expressed in only a minute fraction of the cell cycle, or transcripts expressed in only a fraction of the cell population, would not be reliably detected by our analysis. Finally, mRNA sequence data are practically unavailable for yeast, and consequently, some SAGE tags cannot be unambiguously matched to corresponding genes. Tags which were derived from overlapping genes, or genes which have unusually long 3' untranslated regions may be misassigned. Increased availability of

3' UTR sequences in yeast mRNA molecules should help to resolve the ambiguities.

Despite these potential limitations, it is clear that the analyses described here furnish both global and local pictures of gene expression, precisely defined at the nucleotide level. These data, like the sequence of the yeast genome itself, provide simple, basic information integral to the interpretation of many experiments in the future. The availability of mRNA sequence information from EST sequencing as well as various genome projects, will soon allow definition of transcriptomes from a variety of organisms, including human. The data recorded here suggest that a reasonably complete picture of a human cell transcriptome will require only about 10 - 20 fold more tags than evaluated here, a number well within the practical realm achievable with a small number of automated sequencers. The analysis of global expression patterns in higher eukaryotes is expected, in general, to be similar to those reported here for *S. cerevisiae*. However, the analysis of the transcriptome in different cells and from different individuals should yield a wealth of information regarding gene function in normal, developmental, and disease states.

Experimental Procedures

Yeast cell culture

The source of transcripts for all experiments was S. cerevisiae strain YPH499 (*MATa ura3-52 lys2-801 ade2-101 leu2-Δ1 his3-Δ200 trp1-Δ63*) (Sikorski and Hieter, 1989). Logarithmically growing cells were obtained by growing yeast cells to early log phase (3 x 10^6 cells/ml) in YPD (Rose *et al.*, 1990) rich medium (YPD supplemented with 6 mM uracil, 4.8 mM adenine and 24 mM tryptophan) at 30°C. For arrest in the G1/S phase of the cell cycle, hydroxyurea (0.1 M) was added to early log phase cells, and the culture was incubated an additional 3.5 hours at 30°C. For arrest in the G2/M phase of the cell cycle, nocodazole (15 µg/ml) was added to early log phase cells and the culture was incubated for an additional 100 minutes at 30°C. Harvested cells were washed once with water prior to freezing at -70°C. The growth states of the harvested cells were confirmed by microscopic and flow cytometric analyses (Basrai *et al.*, 1996).

SAGE protocol

The SAGE method was performed as previously described (Velculescu *et al.*, 1995; Kinzler *et al.*, U.S. Patents 5,866,330 and 5,695,937), with exceptions noted below. PolyA RNA was converted to double-stranded cDNA with a BRL synthesis kit using the manufacturer's protocol except for the inclusion of primer biotin-5'-T_{18}-3'. The cDNA was cleaved with NlaIII (Anchoring Enzyme). As NlaIII sites were observed to occur once every 309 base pairs in three arbitrarily chosen yeast chromosomes (1, 5, 10), 95% of yeast transcripts were predicted to be detectable with a NlaIII-based SAGE approach. After capture of the 3' cDNA fragments on streptavidin coated magnetic beads (Dynal), the bound cDNA was divided into two pools, and one of the following linkers containing recognition sites for BsmFI was ligated to each pool: Linker 1, 5'-TTTGGATTTGCTGGTGCAGTACAACTAGGCTTAATAGGGACATG-3' (SEQ ID NO:1).5'-TCCCTATTAAGCCTAGTTGTACTGCACCAGCAAATCC [amino mod. C7]-3'(SEQ ID NO:2).; Linker 2,5'-TTTCTGCTCGAATTCAAGCTTCTAACGATGTACGGGGACATG-3' (SEQ ID NO:3) , 5'-TCCCCGTACATCGTTAGAAGCTTGAATTCGAGCAG[amino mod. C7]-3' (SEQ ID NO:4).

As BsmFI (Tagging Enzyme) cleaves 14 bp away from its recognition site, and the NlaIII site overlaps the BsmFI site by 1 bp, a 15 bp SAGE tag was released with BsmFI. SAGE tag overhangs were filled-in with Klenow, and tags from the two pools were combined and ligated to each other. The ligation product was diluted and then amplified with PCR for 28 cycles with 5'-GGATTTGCTGGTGCAGTACA-3' (SEQ ID NO:5) and 5'-CTGCTCGAATTCAAGCTTCT-3' (SEQ ID NO:6), as primers. The PCR product was analyzed by polyacrylamide gel electrophoresis (PAGE), and the PCR product containing two tags ligated tail to tail (ditag) was excised. The PCR product was then cleaved with NlaIII, and the band containing the ditags was excised and self-ligated. After ligation, the concatenated products were separated by PAGE and products between 500 bp and 2 kb were excised. These products were cloned into the SphI site of pZero (Invitrogen). Colonies were screened for inserts by PCR with M13 forward and M13 reverse sequences located outside the cloning site as primers.

PCR products from selected clones were sequenced with the TaqFS DyePrimer kits (Perkin Elmer) and analyzed using a 377 ABI automated sequencer (Perkin Elmer), following the manufacturer's protocol. Each successful sequencing reaction identified an average of 26 tags; given a 90% sequencing reaction success rate, this corresponded to an average of about 850 tags per sequencing gel.

SAGE data analysis

Sequence files were analyzed by means of the SAGE program group (Velculescu *et al.*, 1995), which identifies the anchoring enzyme site with the proper spacing and extracts the two intervening tags and records them in a database. The 68,691 tags obtained contained 62,965 tags from unique ditags and 5,726 tags from repeated ditags. The latter were counted only once to eliminate potential PCR bias of the quantitation, as described (Velculescu *et al.*, 1995). Of 62,965 tags, 2,332 tags corresponded to linker sequences, and were excluded from further analysis. Of the remaining tags, 4,342 tags could not be assigned, and were likely due to sequencing errors (in the tags or in the yeast genomic sequence). If all of these were due to tag sequencing errors, this corresponds to a sequencing error rate of about 0.7% per base pair (for a 10bp tag), not far from what we would have expected under our automated sequencing conditions. However, some unassigned tags had a much higher than expected frequency of A's as the last five base pairs of the tag (5 of the 52 most abundant unassigned tags), suggesting that these tags were derived from transcripts containing anchoring enzyme sites within several base pairs from their polyA tails. Given the frequency of NlaIII sites in the genome (one in 309 base pairs), approximately 3% of transcripts were predicted to contain NlaIII sites within 10 bp of their polyA tails.

As very sparse data are available for yeast mRNA sequences and efforts to date have not been able to identify a highly conserved polyadenylation signal (Irniger and Braus, 1994; Zaret and Sherman, 1982), we used 14 bp of SAGE tags (i.e. the NlaIII site plus the adjacent 10 bp) to search the yeast genome directly (yeast genome sequence obtained from the Stanford yeast genome ftp site (genome-ftp.stanford.edu) on August 7, 1996). Because only coding regions are annotated in the yeast genome,

and SAGE tags can be derived from 3' untranslated regions of genes, a SAGE tag was considered to correspond to a particular gene if it matched the ORF or the region 500 bp 3' of the ORF (locus names, gene names and ORF chromosomal coordinates were obtained from Stanford yeast genome ftp site, and ORF descriptions were obtained from MIPS www site (http://www.mips.biochem.mpg.de/) on August 14, 1996). ORFs were considered genes with known functions if they were associated with a three letter gene name, while ORFs without such designations were considered uncharacterized.

As expected, SAGE tags matched transcribed portions of the genome in a highly non-random fashion, with 88% matching ORFs or their adjacent 3' regions in the correct orientation (chi-squared P value $<10^{-30}$). In instances when more than one tag matched a particular ORF in the correct orientation, the abundance was calculated to be the sum of the matched tags. Tags that matched ORFs in the incorrect orientation were not used in abundance calculations. In instances when a tag matched more than one region of the genome (for example an ORF and non-ORF region) only the matched ORF was considered. In some cases the 15th base of the tag could also be used to resolve ambiguities.

For the identification of NORF genes, only tags were considered that matched portions of the genome that were further than 500 bp 3' of a previously identified ORF and were observed at least two times in the SAGE libraries.

Table 1. Highly expressed genes

Tag	Seq. ID No.	Gene	Locus	Copies/cell	Description
GGTGTTAACG	7	TDH2/TDH3	YJR009C/YGR192C	425	glyceraldehyde-3-phosphate dehydrogenase 2 & 3
AGACAAACTG	8	TEF1/TEF2	YPR080W/YBR118W	248	cytosolic elongation factor eEF-1 alpha-A chain
TACCACTCCT	9	ENO2	YHR174W	229	2-phosphoglycerate dehydratase
GGTTTCGGTT	10	RPLA1, A2, A3, 10E	YDL081C/YOL039W/YDL130W/YLR340W	207	acidic ribosomal protein a1 / P2.beta / L44prime / L10
TTGCCAGTCT	11	PDC1	YLR044C	207	pyruvate decarboxylase isozyme 1
GGTGAAAACG	12	ADH1, ADH2	YOL086C/YMR303C	182	alcohol dehydrogenase I / II
ATCGCCGCTC	13	GPM1	YKL152C	168	phosphoglycerate mutase
GGTGCTAAGA	14	FBA1	YKL060C	166	fructose-bisphosphate aldolase II
TTAGTTTCTA	15	RPL47A	YDL184C	143	ribosomal protein
TCTCTACTGG	16	PGK1	YCR012W	139	phosphoglycerate kinase
GGTTTTGGTT	17	RPLA4	YDR382W	138	acidic ribosomal protein L45
GGTCCAGCTT	18	SSM1A / SSM1B	YPL220W / YGL135W	128	ribosomal protein
AATCCAGTTG	19	RPL5A / RPL5B	YIL018W / YFR031AC	102	ribosomal protein
TTCGTTCACT	20		NORF1	94	nonannotated ORF
AACAGACCAG	21	RPL16A / RPL16B	YPR102C / YGR085C	83	ribosomal protein
CTGCTCTGGG	22	CUP1A / CUP1B	YHR053C / YHR055C	75	metallothionein
GCAATACTAC	23		YOR293W / YMR230W	73	ribosomal protein S10 / similarity to ribosomal protein S10
GCTCTCCCCC	24		NORF2	73	nonannotated ORF
AAAGACAGAG	25	RPS31A	YGR027C	72	ribosomal protein
TGTCGTGGTG	26	RPL2A / RPL2B	YBR031W / YDR012W	70	ribosomal protein
CCAAGGGTAT	27	RPS28A	YGR118W	69	ribosomal protein
TCTCCAGAAG	28	RPL35B	YDR500C	69	ribosomal protein
GTTTTTCTTT	29	PYK1	YAL038W	69	pyruvate kinase
ATCACTGGTG	30	RPL9A / RPL9B	YGL147C / YNL067W	68	ribosomal protein L9
ATGAAGGTTC	31	RPL27A	YHR010W	68	ribosomal protein L27
GTAGAGCCGG	32	RPS21	YOL040C	67	ribosomal protein
GGTACTGATG	33	RPL43A	YDL075W	67	ribosomal protein L31
CCAGATTTGT	34	NAB1A / NAB1B	YGR214W / YLR048W	67	40S ribosomal protein p40 homolog A
GTGCCGTCCA	35	URP1A	YBR191W	62	ribosomal protein L21
CAAAACCCAA	36	RPS18EB	YML026C	60	ribosomal protein S18

Table 2. Putative coding sequences

SAGE Tag	Seq. ID No.	Locus	Copies/Cell	Description
TTGAACTACC	37	YKL056C	58	strong similarity to human IgE-dependent histamine-releasing factor (21K tumor protein)
TTCGGGTCAC	38	YDR276C	56	strong similarity to Hordeum vulgare blt101 protein
CCAGATATGA	39	YIL093C	41	hypothetical protein
TTTAAAATGG	40	YMR116C	38	similarity to N.crassa CPC2 protein
GGTGTCGTTG	41	YBR078W	34	strong similarity to sporulation specific Sps2p
TACTCTTCGC	42	YEL033W	33	hypothetical protein
TGTAATTAAA	43	YOR182C	26	homology to human ubiquitin-like protein/ribosomal protein S30
GGAGATCTTG	44	YCR013C	24	weak similarity to M.lepra B1498_F1_41 protein
TCAAGAAGTT	45	YER056AC	20	strong similarity to ribosomal protein L34
AAAAACTTTG	46	YIL051C	18	strong similarity to YER057c
AAGTTGAACA	47	YPR043W	17	ribosomal protein L37
GGGTGCGGGT	48	YDR032C	16	strong similarity to YCR004c and S.pombe obr1
TGACTCTTTG	49	YLR390W	14	hypothetical protein
GGTCAATGGC	50	YJR105W	11	hypothetical protein
TAAGAATTCT	51	YJL158C	11	member of the Pir1p/Hsp150p/Pir3p family
TCAATTATGT	52	YDR033W	11	strong similarity to putative heat shock protein YRO2
ACGGCCAAGA	53	YBR162C	10	similarity to YJL171p
TTGGGCTAGT	54	YJL171C	10	similarity to YBR162c
CCTTCCAGGT	55	YJR085C	10	hypothetical protein
CCTCTCTTGT	56	YOR310C	10	homology to SIK1 protein
CCCAAAACTT	57	YEL018W	9	weak similarity to Rad50p
AACAAGTACT	58	YGL037C	9	similarity to E.coli hypothetical 23K protein
AACAATAAAA	59	YER072W	8	similarity to YFL004w
CAAAAGACCG	60	YML056C	8	homology to human IMP dehydrogenase I
GGTTTTTGAT	61	YOR182C	8	homology to human ubiquitin-like protein/ribosomal protein S30
CAATCCATTT	62	YBR106W	8	hypothetical protein
TTTTGGGTCT	63	YMR318C	8	putative alcohol-dehydrogenase
AACTGTCCAT	64	YDR429C	8	similarity to nuclear RNA binding proteins
CCAAGGTTAA	65	YAR002AC	8	strong similarity to YGL002w
GGTTTTTGAA	66	YOR273C	8	putative resistance protein

Table 3. NORF genes

SAGE Tag	Seq. ID No.	Locus	Copies/Cell	Chr	Tag Pos	ORF Size (bp)
TTCGTTCACT	67	NORF1	94	4	1489450	198
GCTCTCCCCC	68	NORF2	73	16	75633	243
TGTACGCATT	69	NORF3	16	15	301251	189
TTTTATTATC	70	NORF4	15	6	223182	177
CTTCTCTTTT	71	NORF5	12	13	158973	204
TTTCCTATAA	72	NORF6	11	13	511754	252
TCTAGTCGCC	73	NORF7	10	12	669659	192
ATCGTTTTAT	74	NORF8	8	15	877140	174
GGCCAATGGT	75	NORF9	8	4	1202289	267
ACCCTGTCAT	76	NORF10	7	2	418633	255
AAAAGATCAT	77	NORF11	7	4	1489453	87
CAGAAAATGG	78	NORF12	6	8	115655	279
TGACATTCTT	79	NORF13	6	16	883669	183
TAGACATCTA	80	NORF14	6	2	491117	141
TGCCCTGGCC	81	NORF15	5	5	166452	216
GGTTTTGGCG	82	NORF16	4	3	24169	291
CCATACAGGT	83	NORF17	4	12	673851	114
CCAAATCAAA	84	NORF18	3	4	229494	258
AAGCGGTACT	85	NORF19	3	9	47889	399
AACGCTTTTC	86	NORF20	3	2	351456	198
GAGGATAGAG	87	NORF21	3	2	356201	240
CAATGAACCG	88	NORF22	3	16	75541	243
TCTTTATATA	89	NORF23	3	1	73363	90
CGCCTCCAGT	90	NORF24	3	7	485774	108
TACGTAAGTT	91	NORF25	3	10	156139	81
GATTTAAACT	92	NORF26	3	15	254749	93
GCGCCTCCAA	93	NORF27	2	5	42622	222
CAATGGCCCA	94	NORF28	2	13	511751	78
TTGAGGAACG	95	NORF29	2	3	154681	264
GCTAAGAACC	96	NORF30	2	4	302607	204

Additional NORFs

SAGE Tag	Seq. ID No.	Chr	Tag Pos	Copies/cell
GGCGCAATTT	97	4	1108395	2
TAAGTGATGA	98	7	593382	2
TTGTTGAATT	99	10	608373	2
GAAGCAGTAA	100	3	155607	2
ACATATGTTA	101	4	916112	2
CCCTACACGG	102	6	223289	2
GTAATTGGAC	103	10	392099	2
ATCAGACAAA	104	14	687272	2
TTATGAAAGA	105	15	81263	2
ATTCGTTCTA	106	15	841970	2
AGCAGGAGTT	107	16	188350	2
TTCTATTAGG	108	2	418749	2
TGGATTTCAG	109	4	1224930	2
CAGATATAAT	110	5	52488	2
CTGTTTTGGG	111	11	374761	2
CATTTTTAGT	112	11	508212	2
TTGAAAAGAT	113	13	104160	2
TAAGCCCATC	114	13	251273	2
AGCGTCCTCA	115	15	832420	2
TTTAGTTAAT	116	2	477623	2
ATGGTAGCCA	117	3	56961	2
AATTAGACTA	118	3	162589	2
AGTGACTCTT	119	4	1490879	2
GGACTATAAG	120	5	251266	2
ACTTTTTCAG	121	10	159213	2
GTCATATAGT	122	13	158765	2
CAACAAAGTG	123	13	171166	2
GTGGGAAAGG	124	13	804600	2
TACTTTATAT	125	16	366449	2
AATACCAGCG	126	3	175540	1
GCCTTGTATA	127	4	372624	1
GGTACATTCA	128	5	67152	1
GATTTCTCTG	129	5	187462	1
TAGTTGCTCC	130	7	317108	1
GTAAGAAATC	131	7	836202	1
CTTGGGCTAT	132	8	107992	1
AAATGGTGAT	133	11	558686	1
ATCATTTGGG	134	12	199358	1
CTGAACTTTA	135	12	283720	1
CCAGAAGGAG	136	13	652873	1
CCGGTTACTA	137	15	803663	1
CGATGAGAAG	138	15	1004369	1
AAACCGTCCC	139	16	199141	1
TCATTCATAC	140	2	164728	1
TATCTTTTTG	141	4	169784	1
TTAGAATAAT	142	4	603508	1
GTACGCTGTG	143	5	118089	1
TATATTAATT	144	6	64228	1

GTTCTTGCCT	145	7	939579	1
ATATAGCTGC	146	10	181144	1
CCAAAAAAAA	147	11	91785	1
GAACTCCACA	148	11	94125	1
CCTTCACTGC	149	11	374172	1
CACATCATAA	150	11	625896	1
GAAGTATTGA	151	12	603999	1
TGCGCGTATA	152	13	206410	1
GGGTAGTACT	153	13	671730	1
TAGTTTTGTC	154	15	33475	1
CAATTCCTAC	155	1	172182	0.8
TTTGATTTGA	156	2	46431	0.8
GGCTCTGGTT	157	2	414510	0.8
CAGAAATAGC	158	2	565130	0.8
CTGTTATTTT	159	2	616054	0.8
CGAAGTCAAA	160	2	680605	0.8
CTCTAGATAA	161	3	171584	0.8
AGTCAAAATG	162	4	192750	0.8
GCGAGTTTAG	163	4	691301	0.8
GCTCCAATAG	164	4	1131020	0.8
TTTATTTGAG	165	4	1237501	0.8
GTTATATTGA	166	4	1401803	0.8
TGGGTTGAAG	167	5	251266	0.8
ATTTTATTTG	168	5	447729	0.8
ATCATAAAAA	169	5	548612	0.8
TTATATAAAA	170	6	223182	0.8
CTACTTCTGC	171	8	34653	0.8
ATAAGACAGT	172	10	227802	0.8
TTCATAAGTT	173	10	471894	0.8
TAAATCTGAG	174	11	145617	0.8
CTGGTAGAAA	175	11	151174	0.8
CACGTACACA	176	11	403208	0.8
CCAAGATCAA	177	11	425882	0.8
AGCTTGTTCC	178	12	234966	0.8
CACATTCGTT	179	12	759953	0.8
CTTACATATA	180	12	789781	0.8
TCTATAGCAA	181	13	228936	0.8
CCTTTCTGAA	182	13	297985	0.8
CCTTTAGAAT	183	13	777999	0.8
AATTAACACC	184	13	842122	0.8
GCGCAGGGGC	185	14	440984	0.8
TGTTTATAAA	186	14	661710	0.8
AAAAGTCATT	187	15	32081	0.8
TTCGTAAACT	188	15	680625	0.8
TTTTTGGAGT	189	15	888343	0.8
AGGCATCTTG	190	16	250284	0.8
AAATCAAAAC	191	16	453890	0.8
AATTGACGAA	192	16	560169	0.8
TTGATGATTT	193	16	582360	0.8
CCTGTTTTTG	194	16	643476	0.8
TTTTTAAAAA	195	1	101436	0.5

AAGTTTGATC	196	1	199848	0.5
AGCACCTATG	197	2	46913	0.5
TGATTTATCC	198	2	418946	0.5
ACTGCATCTG	199	2	680860	0.5
CAAGTTAGGA	200	2	744770	0.5
ATACCCAATT	201	3	29939	0.5
AACTTTGTAT	202	3	30056	0.5
GCGGCGGGTG	203	3	41645	0.5
AAAATTGTTC	204	3	57108	0.5
TCAAGTACTC	205	3	157855	0.5
AACTGTATGC	206	3	223882	0.5
CTATCGGCCA	207	3	278840	0.5
ACAAGCCCAA	208	3	289917	0.5
GTACAGGGCT	209	4	93873	0.5
AAGATCATCG	210	4	254851	0.5
GAACTCCTGG	211	4	340891	0.5
GAACGAGAAG	212	4	371850	0.5
TTTTTAATAC	213	4	372058	0.5
TCTCCAGTTG	214	4	381712	0.5
AATACGTTAC	215	4	471791	0.5
ACGATTGGCT	216	4	509158	0.5
TGTTTATAAG	217	4	521709	0.5
CGTTTTCGTC	218	4	538839	0.5
TCGAACCTCT	219	4	578702	0.5
TCCACACACA	220	4	930972	0.5
CCGTGCGTGC	221	4	1324367	0.5
TTTCTTCAAC	222	5	116099	0.5
CCAAGTCTCG	223	5	159320	0.5
AGAGCGAATT	224	5	207517	0.5
TGTAGATTAT	225	5	280465	0.5
AAAAGTAGTT	226	5	286387	0.5
ACTTGGTATG	227	5	422942	0.5
TTAATGTTAT	228	5	544523	0.5
TACACGCGCG	229	5	544555	0.5
GGTCACTCCT	230	6	62983	0.5
AAGTGATGAA	231	6	76141	0.5
TTTATCTTGT	232	6	130327	0.5
AGTGATTGTT	233	6	256223	0.5
GCTTTGTTGT	234	7	72577	0.5
TCATTGATTC	235	7	110590	0.5
TTCACCGGAA	236	7	323655	0.5
ACTATTCTGT	237	7	423957	0.5
GGGCCAACCC	238	7	433787	0.5
AAAATATCTT	239	7	559397	0.5
TAGTAGTAAC	240	7	622201	0.5
AAGCGCACAA	241	7	735909	0.5
TCGCTGTTTT	242	7	800300	0.5
TGTATTTTTG	243	7	836202	0.5
CTAAACAAAG	244	7	836587	0.5
TAGGAAGAAA	245	7	905046	0.5
GGAAAAATTA	246	7	958839	0.5

TTTGGATAGT	247	7	974754	0.5
CGTTTGTGTA	248	8	202655	0.5
AGAAAAAAAC	249	8	386651	0.5
TAAAGTCCAG	250	8	518998	0.5
TAAGCAGATT	251	8	529129	0.5
ATGAGCATTT	252	9	97114	0.5
AGGTGCAAAA	253	9	229077	0.5
TAACAAAGAG	254	10	628227	0.5
CAATTGGCAA	255	10	721781	0.5
ACTCCCTGTA	256	11	93528	0.5
CTCTATTGAT	257	11	144281	0.5
GCTTTCCTTT	258	11	146665	0.5
ACCGCAAAGA	259	11	231872	0.5
CTTGTTCAAA	260	12	230972	0.5
AATGTGCTGT	261	12	320426	0.5
GCAGATAGCG	262	12	341324	0.5
TCTGACTTAG	263	12	368780	0.5
CCCGGATGTT	264	12	433912	0.5
GTAACGATTG	265	12	449917	0.5
GAATAACGAA	266	12	673851	0.5
ACTGCTATTT	267	12	712476	0.5
GTTCTCTAGC	268	12	712712	0.5
CATCACCATC	269	12	794710	0.5
TTGCACTTCT	270	12	806833	0.5
ACTGTTTATG	271	12	867350	0.5
TTGCTATATA	272	12	1017911	0.5
TACATTCTAA	273	13	95707	0.5
CTCTTAGTTG	274	13	158970	0.5
ACGAACACTT	275	13	278341	0.5
TGCGCAAGTC	276	13	283795	0.5
TTTTTCTTAA	277	13	363037	0.5
CAAATGCATT	278	13	390802	0.5
CAAATTGTGT	279	13	395599	0.5
GCAATACTAT	280	13	826521	0.5
AGTGACGATG	281	14	60143	0.5
TACTGGTTTA	282	14	118854	0.5
GTTTGACCTA	283	14	335512	0.5
AGCGTTTGAT	284	14	478481	0.5
CTCTGTTGCG	285	14	728251	0.5
AAATTCAAAA	286	15	35952	0.5
TTTGCTTGGT	287	15	242742	0.5
AGTTTTCCTG	288	15	304813	0.5
TTTAAAGATA	289	15	331453	0.5
AAGGAGACAC	290	15	448624	0.5
CTATATATCA	291	15	544530	0.5
GATGGAATAG	292	15	571210	0.5
TCGAGTCGAA	293	15	758202	0.5
AAAAAAGAAA	294	15	882567	0.5
TTTCCAGAAT	295	15	969884	0.5
TGGACAATGT	296	15	970607	0.5
GGAATTAAGA	297	15	979894	0.5

ACTATATGTT	298	16	582230	0.5
GATATATCAT	299	16	589647	0.5
AGAATTGATT	300	16	744406	0.5
CACTGTCTCC	301	16	824649	0.5

Table 5. Gene expression changes in different cell cycle phases

636	561	519	GGTGTTAACG	812	0.9	0.9	0.8
379	229	396	AGACAAACTG	813	0.6	1.7	1.0
389	268	269	TACCACTCCT	814	0.7	1.0	0.7
269	245	321	GGTTTCGGTT	815	0.9	1.3	1.2
270	318	247	TTGCCAGTCT	816	1.2	0.8	0.9
350	260	124	GGTGAAAACG	817	0.7	0.5	0.4
228	233	219	ATCGCCGCTC	818	1.0	0.9	1.0
247	198	224	GGTGCTAAGA	819	0.8	1.1	0.9
205	247	127	TTAGTTTCTA	820	1.2	0.5	0.6
223	221	119	TCTCTACTGG	821	1.0	0.5	0.5
169	139	249	GGTTTTGGTT	822	0.8	1.8	1.5
153	112	253	GGTCCAGCTT	823	0.7	2.3	1.7
145	118	151	AATCCAGTTG	824	0.8	1.3	1.0
182	84	114	TTCGTTCACT	825	0.5	1.4	0.6
83	70	182	AACAGACCAG	826	0.8	2.6	2.2
123	43	139	CTGCTCTGGG	827	0.3	3.2	1.1
72	76	148	GCAATACTAC	828	1.1	1.9	2.1
69	111	114	GCTCTCCCCC	829	1.6	1.0	1.7
99	74	119	AAAGACAGAG	830	0.7	1.6	1.2
121	74	89	TGTCGTGGTG	831	0.6	1.2	0.7
67	77	136	CCAAGGGTAT	832	1.1	1.8	2.0
40	110	130	TCTCCAGAAG	833	2.8	1.2	3.3
137	78	63	GTTTTTCTTT	834	0.6	0.8	0.5
72	51	152	ATCACTGGTG	835	0.7	3.0	2.1
42	89	142	ATGAAGGTTC	836	2.1	1.6	3.4
103	70	99	GTAGAGCCGG	837	0.7	1.4	1.0
70	58	143	GGTACTGATG	838	0.8	2.5	2.0

Table 5, cont.

71	95	104	CCAGATTTGT	839	1.3	1.1	1.5
40	75	138	GCTGCTCAAA	840	1.9	1.8	3.5
64	39	146	GTGCCGTCCA	841	0.6	3.7	2.3
69	67	105	CAAAACCCAA	842	1.0	1.6	1.5
56	83	96	CCATCTTTAC	843	1.5	1.2	1.7
119	35	79	TTGAACTACC	844	0.3	2.3	0.7
85	71	74	AACATCAAGC	845	0.8	1.0	0.9
72	51	106	GAACACTTCT	846	0.7	2.1	1.5
71	69	87	TTCGGGTCAC	847	1.0	1.3	1.2
48	85	93	TCGTCTGTTT	848	1.8	1.1	1.9
82	110	26	ACATCTCATA	849	1.3	0.2	0.3
68	71	78	GTCAGATTGG	850	1.0	1.1	1.1
81	38	84	AAGGTCAAGA	851	0.5	2.2	1.0
54	80	66	TAACTGGACT	852	1.5	0.8	1.2
42	56	100	TCTTGAGAAT	853	1.3	1.8	2.4
80	39	76	CTCTACTGTC	854	0.5	1.9	1.0
42	50	97	CTCAATCCAA	855	1.2	1.9	2.3
107	41	37	TCTTCTCGTT	856	0.4	0.9	0.3
83	64	30	TTGTCTTTGG	857	0.8	0.5	0.4
74	43	53	CCACGGTTCT	858	0.6	1.2	0.7
41	45	79	CCAGATATGA	859	1.1	1.8	1.9
151	8	4	GTTTCAACGG	860	0.1	0.5	0.0
52	44	66	GACGTCATCA	861	0.8	1.5	1.3
42	24	93	ACAAGATCTT	862	0.6	3.9	2.2
40	50	69	GATAAATACC	863	1.3	1.4	1.7
54	37	67	GTTATGGCCA	864	0.7	1.8	1.2
42	48	64	ACATCATTGA	865	1.1	1.3	1.5
37	47	69	TTCAAAAGAA	866	1.3	1.5	1.9

Table 5, cont.

81	42	30	TTTAAAATGG	867	0.5	0.7	0.4
37	40	73	AGAAAGCAAG	868	1.1	1.8	2.0
47	30	73	AGAATCTTGA	869	0.6	2.4	1.6
52	55	43	ATCTTTAATT	870	1.1	0.8	0.8
41	56	47	AGACCATTGC	871	1.4	0.8	1.1
36	29	79	GCTGCTAGAC	872	0.8	2.7	2.2
83	20	39	GAAGAATTAG	873	0.2	2.0	0.5
51	31	59	CTGGCAAACC	874	0.6	1.9	1.2
49	47	43	CAACAACTAC	875	1.0	0.9	0.9
58	49	32	GGTGTCGTTG	876	0.8	0.7	0.6
55	47	37	TACTTCAACT	877	0.9	0.8	0.7
26	48	64	CACACCAAGA	878	1.8	1.3	2.5
52	35	49	GCAAAGACCT	879	0.7	1.4	0.9
57	28	50	AACTAAACTG	880	0.5	1.8	0.9
35	64	36	GGTAACGTAA	881	1.8	0.6	1.0
38	36	60	AAGGACAGAG	882	0.9	1.7	1.6
31	15	87	ACCCCAGCTC	883	0.5	5.8	2.8
48	20	65	TACTCTTCGC	884	0.4	3.3	1.4
57	39	37	TCGCTTCATT	885	0.7	0.9	0.6
48	47	37	AAATGAATTT	886	1.0	0.8	0.8
22	38	72	GGTACTGAAG	887	1.7	1.9	3.3
38	41	51	TCCGAGTCCG	888	1.1	1.2	1.3
36	50	41	TACACAATTT	889	1.4	0.8	1.1
64	47	16	TATTGTACTT	890	0.7	0.3	0.3
7	111	9	TCTAAGTCCG	891	15.9	0.1	1.3
32	43	49	GGATGATGAA	892	1.3	1.1	1.5
34	33	54	GATGTCATCA	893	1.0	1.6	1.6
43	34	44	TGGGCTTGGG	894	0.8	1.3	1.0

Table 5, cont.

56	28	36	AACGCTTTAA	895	0.5	1.3	0.6
40	50	30	TACAATTTTA	896	1.3	0.6	0.8
3	114	0	ACGTTCTTTT	897	38.0	0.0	0.0
37	32	48	TTTCTCAAGT	898	0.9	1.5	1.3
33	29	53	GGTACTTTGA	899	0.9	1.8	1.6
52	40	21	TTGAAATTTT	900	0.8	0.5	0.4
41	16	54	AAGAAGCCAG	901	0.4	3.4	1.3
57	29	25	GCTGCTATGC	902	0.5	0.9	0.4
23	68	19	TTTACCAGTT	903	3.0	0.3	0.8
53	14	42	AAGGAATTCA	904	0.3	3.0	0.8
35	34	39	CTGTCTCTGA	905	1.0	1.1	1.1
31	55	22	TTGGGTAGTG	906	1.8	0.4	0.7
39	55	12	TGTAATTAAA	907	1.4	0.2	0.3
51	24	31	TTTCCCAAGT	908	0.5	1.3	0.6
9	85	9	GAAAACATCT	909	9.4	0.1	1.0
25	46	31	CCATTCTGGG	910	1.8	0.7	1.2
46	37	17	GAATACTAAG	911	0.8	0.5	0.4
56	17	24	AGAAGAGCTA	912	0.3	1.4	0.4
56	21	20	GCTTTAAGTT	913	0.4	1.0	0.4
20	60	17	GGAGATCTTG	914	3.0	0.3	0.9
15	31	51	GTTTTCCCAA	915	2.1	1.6	3.4
20	26	50	CACGAAAAGC	916	1.3	1.9	2.5
30	19	46	TGTCTCAGCG	917	0.6	2.4	1.5
33	40	20	TCTAGTCTCT	918	1.2	0.5	0.6
27	19	46	GCTGCCAGAC	919	0.7	2.4	1.7
22	29	40	TTAGAAAGGT	920	1.3	1.4	1.8
38	47	4	AAAAAAAAAA	921	1.2	0.1	0.1
31	37	20	GTGCCGCCAT	922	1.2	0.5	0.6

Table 5, cont.

42	14	31	CCTGTTTGAG	923	0.3	2.2	0.7
34	23	30	TTGTCTCTTT	924	0.7	1.3	0.9
32	22	32	ATTTCTTGAG	925	0.7	1.5	1.0
29	33	23	ATCTCCAATG	926	1.1	0.7	0.8
15	28	41	AGAAAACAAG	927	1.9	1.5	2.7
47	28	7	AATTATTAAG	928	0.6	0.3	0.1
38	37	7	ATTTAATATC	929	1.0	0.2	0.2
12	31	39	TCAAGAAGTT	930	2.6	1.3	3.3
44	22	15	ACCGCCACTC	931	0.5	0.7	0.3
18	22	40	GGACCTGCCG	932	1.2	1.8	2.2
18	38	23	ACTTTTAAAT	933	2.1	0.6	1.3
37	24	15	GTTGTTTTCA	934	0.6	0.6	0.4
13	59	4	TTTATATAAA	935	4.5	0.1	0.3
21	23	30	CACTTCAACA	936	1.1	1.3	1.4
28	15	29	AAAAACTTTG	937	0.5	1.9	1.0
15	16	40	AACTGTGCTG	938	1.1	2.5	2.7
22	20	26	GAAATCTGGT	939	0.9	1.3	1.2
11	11	46	GAGGACGCCA	940	1.0	4.2	4.2
19	28	21	TTTTGTACAA	941	1.5	0.8	1.1
19	14	34	AAGTTGAACA	942	0.7	2.4	1.8
19	30	18	CCAATGCACA	943	1.6	0.6	0.9
21	18	27	AGGAAGCTAG	944	0.9	1.5	1.3
16	17	33	TGTACGCATT	945	1.1	1.9	2.1
19	16	30	TCGACGTGGC	946	0.8	1.9	1.6
9	32	23	GGGTGCGGGT	947	3.6	0.7	2.6
12	19	33	GTCGTTCCTA	948	1.6	1.7	2.8
38	11	14	CGGTAGTCCA	949	0.3	1.3	0.4
14	23	26	GGATGGATGC	950	1.6	1.1	1.9

Table 5, cont.

35	13	14	ACTAGAATTT	951	0.4	1.1	0.4
7	48	4	ACCAATCTAC	952	6.9	0.1	0.6
14	25	20	GGAGATTTCA	953	1.8	0.8	1.4
15	39	5	TTTTATTATC	954	2.6	0.1	0.3
34	8	16	CTAGAACGCG	955	0.2	2.0	0.5
10	16	31	AAGCTACCGT	956	1.6	1.9	3.1
22	14	21	TGACTCTTTG	957	0.6	1.5	1.0
24	15	17	ATTACGTTTT	958	0.6	1.1	0.7
13	31	12	TCCCGTACAT	959	2.4	0.4	0.9
39	5	11	AGTGTGCGTA	960	0.1	2.2	0.3
37	11	7	CACAGAAAAA	961	0.3	0.6	0.2
14	17	24	GGTTTTAAGT	962	1.2	1.4	1.7
15	34	5	ACTTAATAAT	963	2.3	0.1	0.3
21	17	15	GTTTATCCAA	964	0.8	0.9	0.7
7	29	16	TACTTACTCA	965	4.1	0.6	2.3
12	18	22	TTTGGTGGTA	966	1.5	1.2	1.8
22	11	18	CTCAAACCGA	967	0.5	1.6	0.8
18	11	22	GGAGAAGGTG	968	0.6	2.0	1.2
26	16	9	TTACTTTCAC	969	0.6	0.6	0.3
13	13	24	ATGCTGAGGG	970	1.0	1.8	1.8
19	20	11	GTGTGGTCAC	971	1.1	0.6	0.6
0	49	0	CTTCTCTTTT	972	#DIV/0!	0.0	#DIV/0!
22	12	15	TGGTGAAGTC	973	0.5	1.3	0.7
10	16	22	CACTTGAGTT	974	1.6	1.4	2.2
13	9	26	TGAGGGTGAT	975	0.7	2.9	2.0
29	12	7	TGATACTAAG	976	0.4	0.6	0.2
18	6	22	TTGGAAAGGA	977	0.3	3.7	1.2
15	15	15	TTCCACTATT	978	1.0	1.0	1.0

Table 5, cont.

15	14	15	CACTTCAACT	979	0.9	1.1	1.0
8	7	29	CAGACCGCTT	980	0.9	4.1	3.6
23	10	11	GGTCAATGGC	981	0.4	1.1	0.5
19	20	5	TAAGAATTCT	982	1.1	0.3	0.3
9	16	19	TCGAAGCTGT	983	1.8	1.2	2.1
11	15	17	GCCAAGCAAT	984	1.4	1.1	1.5
21	11	11	TATGAATGCA	985	0.5	1.0	0.5
22	13	8	TCAATTATGT	986	0.6	0.6	0.4
25	17	1	TTTCCTATAA	987	0.7	0.1	0.0
23	7	12	AACGATCTTC	988	0.3	1.7	0.5
22	6	14	ACGGCCAAGA	989	0.3	2.3	0.6
7	16	19	TCTAGTCGCC	990	2.3	1.2	2.7
8	22	11	ACTGAAAACG	991	2.8	0.5	1.4
21	5	15	ATCCATCGTG	992	0.2	3.0	0.7
9	8	24	ATTCCGTTGA	993	0.9	3.0	2.7
16	6	19	TTGGCCCCAC	994	0.4	3.2	1.2
17	11	12	AAATTGATGC	995	0.6	1.1	0.7
17	19	4	ACTTATGTAA	996	1.1	0.2	0.2
4	19	17	CCTTCCAGGT	997	4.8	0.9	4.3
20	18	2	TCTATATGTG	998	0.9	0.1	0.1
13	12	15	TTGGGCTAGT	999	0.9	1.3	1.2
11	19	10	TTTGTTCGTA	1000	1.7	0.5	0.9
12	12	15	CAAATTTTTG	1001	1.0	1.3	1.3
12	12	15	CCTCTCTTGT	1002	1.0	1.3	1.3
8	16	15	CGGACCTTGT	1003	2.0	0.9	1.9
12	17	10	GCAATTGGTC	1004	1.4	0.6	0.8
12	9	18	GGCAAACGAA	1005	0.8	2.0	1.5
10	16	12	GACTAGCGAA	1006	1.6	0.8	1.2

Table 5, cont.

15	12	11	TTGATCCGTG	1007	0.8	0.9	0.7
12	14	11	AACAAGTACT	1008	1.2	0.8	0.9
11	16	10	ATGGCTTCTC	1009	1.5	0.6	0.9
9	22	6	CCCAAAACTT	1010	2.4	0.3	0.7
7	12	18	GCCGCTTACA	1011	1.7	1.5	2.6
18	12	7	TATAGAATTA	1012	0.7	0.6	0.4
11	15	11	TGATTTTGTT	1013	1.4	0.7	1.0
14	14	8	AATTCAACAG	1014	1.0	0.6	0.6
13	7	16	AGAAGCGGTT	1015	0.5	2.3	1.2
25	3	8	TCTAAATTGT	1016	0.1	2.7	0.3
10	13	12	GCGAATTCGA	1017	1.3	0.9	1.2
5	12	18	GGAATCTACT	1018	2.4	1.5	3.6
14	16	5	TTAAAAAAAA	1019	1.1	0.3	0.4
15	10	9	AAACCTTCAC	1020	0.7	0.9	0.6
15	10	9	AACAATAAAA	1021	0.7	0.9	0.6
11	16	7	ATCGTTTTAT	1022	1.5	0.4	0.6
7	13	14	CAAAAGACCG	1023	1.9	1.1	2.0
12	7	15	GGTTTTTGAT	1024	0.6	2.1	1.3
10	16	8	TCGTCGTCAG	1025	1.6	0.5	0.8
15	9	10	TTAGCCACTG	1026	0.6	1.1	0.7
6	9	19	TTTTGGAACA	1027	1.5	2.1	3.2
5	10	18	CAATCCATTT	1028	2.0	1.8	3.6
9	11	13	CTGGTGCTAA	1029	1.2	1.2	1.4
4	11	18	GCTAGACAAA	1030	2.8	1.6	4.5
11	12	10	TTTTGGGTCT	1031	1.1	0.8	0.9
14	7	11	AACAGGCCGC	1032	0.5	1.6	0.8
11	11	10	AACTGTCCAT	1033	1.0	0.9	0.9
8	16	8	CCAAGGTTAA	1034	2.0	0.5	1.0

Table 5, cont.

8	10	14	CGGTACAGAA	1035	1.3	1.4	1.8
6	12	14	GAAAGAGATT	1036	2.0	1.2	2.3
9	10	13	GGCCAATGGT	1037	1.1	1.3	1.4
12	9	11	GGTTTTTGAA	1038	0.8	1.2	0.9
10	13	9	GTTTTTCCCA	1039	1.3	0.7	0.9
3	14	15	TGGTTTAACG	1040	4.7	1.1	5.0
9	14	8	AAGATGCTAT	1041	1.6	0.6	0.9
18	10	3	CTAAACGCGC	1042	0.6	0.3	0.2
11	12	8	GAACTTTATA	1043	1.1	0.7	0.7
7	7	17	GGGTGATGCT	1044	1.0	2.4	2.4
8	10	13	TTCTTGACCG	1045	1.3	1.3	1.6
7	14	9	ACCCTGTCAT	1046	2.0	0.6	1.3
9	18	3	ATATCATTGA	1047	2.0	0.2	0.3
8	6	16	CCACCAAAGG	1048	0.8	2.7	2.0
10	16	4	CCCCGTACAT	1049	1.6	0.3	0.4
16	5	9	CTGCGTTACA	1050	0.3	1.8	0.6
11	11	8	CTTACTTTGA	1051	1.0	0.7	0.7
9	15	6	TATTTTCATT	1052	1.7	0.4	0.7
7	15	8	TTCCCTCACT	1053	2.1	0.5	1.1
8	12	9	ACTGCTGACT	1054	1.5	0.8	1.1
9	8	12	AGAGTGCATA	1055	0.9	1.5	1.3
2	15	12	ATCTTTGGCT	1056	7.5	0.8	6.0
6	5	18	CACGGTTTGC	1057	0.8	3.6	3.0
10	10	9	TCTTTGATTA	1058	1.0	0.9	0.9
12	10	7	TGTGTTTTTG	1059	0.8	0.7	0.6
8	11	10	TTTACGCCCT	1060	1.4	0.9	1.3
9	18	1	ATTACCGTTT	1061	2.0	0.1	0.1
15	9	4	ATTGGTCAAT	1062	0.6	0.4	0.3

Table 5, cont.

9	12	7	CGAGCTTTCG	1063	1.3	0.6	0.8
7	13	8	CGTAAATACT	1064	1.9	0.6	1.1
12	2	14	GCAAAAATAT	1065	0.2	7.0	1.2
5	10	13	GCTTGGGCGG	1066	2.0	1.3	2.6
9	13	6	GGGGTGATAA	1067	1.4	0.5	0.7
7	12	9	GTGAAGATTG	1068	1.7	0.8	1.3
9	7	12	TAAGGAGTTT	1069	0.8	1.7	1.3
2	16	10	TTAATTCTGT	1070	8.0	0.6	5.0
5	19	3	AAAAGATCAT	1071	3.8	0.2	0.6
10	6	11	AACAAGTCGG	1072	0.6	1.8	1.1
9	13	5	AACTGAATCT	1073	1.4	0.4	0.6
9	9	9	AAGACAATCG	1074	1.0	1.0	1.0
4	11	12	AAGGAGTTGG	1075	2.8	1.1	3.0
13	7	7	CGAACGATGA	1076	0.5	1.0	0.5
3	18	6	GCAACAACTT	1077	6.0	0.3	2.0
18	0	9	GGATATAAAT	1078	0.0	#DIV/0!	0.5
11	10	6	GGTCCAATTA	1079	0.9	0.6	0.5
10	6	11	GGTCCATTGG	1080	0.6	1.8	1.1
14	3	10	GGTGCTGTTA	1081	0.2	3.3	0.7
8	7	12	GTGGTCTCTC	1082	0.9	1.7	1.5
14	6	6	ATATTCTTCC	1083	0.4	1.0	0.4
6	8	12	ATGTTTTTGA	1084	1.3	1.5	2.0
10	0	16	CCTGGTCGTC	1085	0.0	#DIV/0!	1.6
6	6	14	GACTAATGTT	1086	1.0	2.3	2.3
8	11	7	GAGGATAACG	1087	1.4	0.6	0.9
1	15	10	GCAGTAAAGG	1088	15.0	0.7	10.0
12	7	7	GCCTTGTGCT	1089	0.6	1.0	0.6
7	9	10	GCGCACCAAA	1090	1.3	1.1	1.4

Table 5, cont.

6	8	12	GTACACCACA	1091	1.3	1.5	2.0
9	7	9	AAGGAGTCTC	1092	0.8	1.3	1.0
6	7	12	AGGACGTTGA	1093	1.2	1.7	2.0
5	9	11	CAGAAAATGG	1094	1.8	1.2	2.2
7	9	9	CCATTCATTT	1095	1.3	1.0	1.3
12	9	4	CGGTCTCTAT	1096	0.8	0.4	0.3
7	6	12	CTTTCTTCAG	1097	0.9	2.0	1.7
12	3	10	GACGACTTGG	1098	0.3	3.3	0.8
10	7	8	GCTGCTACTT	1099	0.7	1.1	0.8
8	6	11	GGCAAATTAC	1100	0.8	1.8	1.4
10	8	7	GTTGCATAAT	1101	0.8	0.9	0.7
5	9	11	TGGTGTTGTC	1102	1.8	1.2	2.2
5	10	10	TTCTTCGCCT	1103	2.0	1.0	2.0
13	8	3	AGAAAAAATC	1104	0.6	0.4	0.2
8	7	9	AGCGGGTTCT	1105	0.9	1.3	1.1
7	11	6	CGTTCATCCG	1106	1.6	0.5	0.9
14	5	5	CTTAAAATCT	1107	0.4	1.0	0.4
7	8	9	GAGTTGCTGA	1108	1.1	1.1	1.3
2	20	2	GGGCGAGGCT	1109	10.0	0.1	1.0
7	5	12	GGTAAGAAAA	1110	0.7	2.4	1.7
11	6	7	GGTACTAGAA	1111	0.5	1.2	0.6
6	5	13	GTTCCAAGAC	1112	0.8	2.6	2.2
7	9	8	TGACATTCTT	1113	1.3	0.9	1.1
4	3	17	TGCGCCTCTT	1114	0.8	5.7	4.3
10	9	5	TTGACAAATT	1115	0.9	0.6	0.5
10	3	10	CAGGAAGCTG	1116	0.3	3.3	1.0
3	15	5	CCGAACGGTT	1117	5.0	0.3	1.7
5	16	2	CCGACAACGA	1118	3.2	0.1	0.4

Table 5, cont.

9	5	9	CGCCGGTTCC	1119	0.6	1.8	1.0
9	6	8	GAAGTCGCTG	1120	0.7	1.3	0.9
2	13	8	GCATTCAAAC	1121	6.5	0.6	4.0
8	5	10	GCTAAATTTT	1122	0.6	2.0	1.3
10	4	9	GCTTTGATTG	1123	0.4	2.3	0.9
4	12	7	GTCGCCAGTG	1124	3.0	0.6	1.8
4	16	3	TAGACATCTA	1125	4.0	0.2	0.8
7	2	14	TTCAACCCAA	1126	0.3	7.0	2.0
10	9	4	TTTTCTATGA	1127	0.9	0.4	0.4
6	10	6	AACCGCTAAG	1128	1.7	0.6	1.0
3	10	9	AATGTGGCTC	1129	3.3	0.9	3.0
7	8	7	AGACTCCATT	1130	1.1	0.9	1.0
10	8	4	ATCTTTAGTT	1131	0.8	0.5	0.4
5	8	9	ATGACCAGCC	1132	1.6	1.1	1.8
5	4	13	CAACCCACTG	1133	0.8	3.3	2.6
8	5	9	CACGCCGCTC	1134	0.6	1.8	1.1
9	4	9	CCGAGCCAAA	1135	0.4	2.3	1.0
5	9	8	CCTCTACATT	1136	1.8	0.9	1.6
7	6	9	CTCTAAACCG	1137	0.9	1.5	1.3
9	6	7	CTGACCAAAT	1138	0.7	1.2	0.8
7	6	9	CTTTCTTTTA	1139	0.9	1.5	1.3
6	8	8	GAAATCTGGA	1140	1.3	1.0	1.3
6	11	5	GATGCCGAAA	1141	1.8	0.5	0.8
7	5	10	TAAAATGATT	1142	0.7	2.0	1.4
8	14	0	TACTATATAT	1143	1.8	0.0	0.0
9	9	4	TGATTAAAAA	1144	1.0	0.4	0.4
9	3	10	TGCCCTGGCC	1145	0.3	3.3	1.1
8	8	6	TTGCCGAATC	1146	1.0	0.8	0.8

Table 5, cont.

8	5	8	ACAATGCTAT	1147	0.6	1.6	1.0
6	5	10	AGCAAAAGTG	1148	0.8	2.0	1.7
6	14	1	ATATTATTTG	1149	2.3	0.1	0.2
8	13	0	ATCTTTTTAC	1150	1.6	0.0	0.0
4	9	8	CCATTTTTGG	1151	2.3	0.9	2.0
5	12	4	CTATATTTCA	1152	2.4	0.3	0.8
15	4	2	GACATTTGTT	1153	0.3	0.5	0.1
5	9	7	GGAAGAAGCT	1154	1.8	0.8	1.4
7	7	7	GTCCCAAAAA	1155	1.0	1.0	1.0
6	4	11	GTTACTCGGG	1156	0.7	2.8	1.8
7	8	6	TAACGAGTAC	1157	1.1	0.8	0.9
15	4	2	TAATCATTAT	1158	0.3	0.5	0.1
9	10	2	TCCCTATAAG	1159	1.1	0.2	0.2
10	7	4	TGTCACCCCA	1160	0.7	0.6	0.4
5	14	2	TTTACGATAA	1161	2.8	0.1	0.4
8	5	7	AAGAGGTCAG	1162	0.6	1.4	0.9
5	9	6	ACAAAGTTAT	1163	1.8	0.7	1.2
11	3	6	ATTAAGCGTA	1164	0.3	2.0	0.5
4	9	7	CAAGAAGCTA	1165	2.3	0.8	1.8
7	9	4	CATAGCTAAT	1166	1.3	0.4	0.6
2	7	11	CCAAGGCCAT	1167	3.5	1.6	5.5
4	9	7	CCTTCAAGAA	1168	2.3	0.8	1.8
10	4	6	GAAGAACGTG	1169	0.4	1.5	0.6
7	4	9	GTTGCCTCAG	1170	0.6	2.3	1.3
8	6	6	GTTTCCTTTC	1171	0.8	1.0	0.8
6	6	8	TAAATGGAAC	1172	1.0	1.3	1.3
9	7	4	TGTGTATGAA	1173	0.8	0.6	0.4
4	8	8	TTTCTGGTGA	1174	2.0	1.0	2.0

Table 5, cont.

3	13	3	AAACGATACT	1175	4.3	0.2	1.0
10	4	5	ACCACTAGAG	1176	0.4	1.3	0.5
1	10	8	AGAAAGGATA	1177	10.0	0.8	8.0
8	3	8	AGAGCCATAA	1178	0.4	2.7	1.0
3	5	11	ATGATGGCAT	1179	1.7	2.2	3.7
9	4	6	ATTGAATCAA	1180	0.4	1.5	0.7
12	4	3	CAGCCTTTAA	1181	0.3	0.8	0.3
9	2	8	CCAAAGCTGC	1182	0.2	4.0	0.9
3	5	11	CTCCCTCAAT	1183	1.7	2.2	3.7
4	10	5	CTGACTCCTT	1184	2.5	0.5	1.3
10	3	6	GAAAAAAACT	1185	0.3	2.0	0.6
8	1	10	GAGGGATCCA	1186	0.1	10.0	1.3
2	15	2	GCGCCAATAG	1187	7.5	0.1	1.0
4	6	9	GCTTCTGGCA	1188	1.5	1.5	2.3
4	4	11	GGTTGATGCG	1189	1.0	2.8	2.8
9	6	4	GTCTTATTTT	1190	0.7	0.7	0.4
9	4	6	GTTGGATGGA	1191	0.4	1.5	0.7
3	13	3	GTTTACTGTT	1192	4.3	0.2	1.0
13	5	1	TATAATAATT	1193	0.4	0.2	0.1
4	5	10	TCCGAATATG	1194	1.3	2.0	2.5
4	8	7	TCCTTAGCGC	1195	2.0	0.9	1.8
7	7	5	TCCTTGTCTA	1196	1.0	0.7	0.7
7	6	6	TCGTTAAAAT	1197	0.9	1.0	0.9
4	13	2	TGTTTGTATT	1198	3.3	0.2	0.5
12	4	3	TTAGTCAAAA	1199	0.3	0.8	0.3
11	4	4	TTGGGGCAAA	1200	0.4	1.0	0.4
6	6	6	AACTGATAGA	1201	1.0	1.0	1.0
4	4	10	ACAAAATTTG	1202	1.0	2.5	2.5

Table 5, cont.

10	6	2	ACGAAGGAAT	1203	0.6	0.3	0.2
6	6	6	ACGAGAGATT	1204	1.0	1.0	1.0
7	6	5	ATGACTGAAC	1205	0.9	0.8	0.7
6	8	4	ATGGAACTAT	1206	1.3	0.5	0.7
7	4	7	ATTTTGAAGA	1207	0.6	1.8	1.0
3	14	1	CAAAGGATCT	1208	4.7	0.1	0.3
3	7	8	CCTGCCTTAT	1209	2.3	1.1	2.7
9	6	3	CGACTGCGCC	1210	0.7	0.5	0.3
6	5	7	CTAACTGGCT	1211	0.8	1.4	1.2
9	5	4	CTGTTTATGG	1212	0.6	0.8	0.4
2	5	11	GAAAACACTT	1213	2.5	2.2	5.5
5	5	8	GAACAGACAA	1214	1.0	1.6	1.6
5	6	7	GAATAAGCTG	1215	1.2	1.2	1.4
2	8	8	GCAGAATGCT	1216	4.0	1.0	4.0
5	3	10	GCGTAAGATA	1217	0.6	3.3	2.0
6	3	9	GGCTCCTTAT	1218	0.5	3.0	1.5
2	3	13	GGGAGTATGG	1219	1.5	4.3	6.5
8	3	7	GTTTCTGTGT	1220	0.4	2.3	0.9
5	12	1	TACACAAGTA	1221	2.4	0.1	0.2
10	7	1	TATATTTTTT	1222	0.7	0.1	0.1
7	3	8	TATGGCGTAC	1223	0.4	2.7	1.1
2	9	7	TCTATTGTCA	1224	4.5	0.8	3.5
6	6	5	AAAAAGCTAG	1225	1.0	0.8	0.8
7	2	8	AAAACGCCAT	1226	0.3	4.0	1.1
5	7	5	AAGTCAATAG	1227	1.4	0.7	1.0
4	6	7	AATCGTCATA	1228	1.5	1.2	1.8
6	4	7	ACAAAAATTC	1229	0.7	1.8	1.2
7	6	4	ACCGCCACCC	1230	0.9	0.7	0.6

Table 5, cont.

6	6	5	ACTTGGAGCC	1231	1.0	0.8	0.8
7	4	6	AGATGGATTC	1232	0.6	1.5	0.9
7	7	3	ATCACGCTCT	1233	1.0	0.4	0.4
5	8	4	ATCCAAGCTG	1234	1.6	0.5	0.8
10	4	3	ATCGGTCCAG	1235	0.4	0.8	0.3
5	7	5	ATGACAAAGG	1236	1.4	0.7	1.0
9	2	6	GAAGTCGGAA	1237	0.2	3.0	0.7
1	10	6	GAGGTGCTGT	1238	10.0	0.6	6.0
4	6	7	GCGTTCGCGG	1239	1.5	1.2	1.8
4	1	12	GGATCGGTTT	1240	0.3	12.0	3.0
8	1	8	GGATGCTGTG	1241	0.1	8.0	1.0
7	7	3	GGTTTTGGCG	1242	1.0	0.4	0.4
4	4	9	GTTTCAAGAG	1243	1.0	2.3	2.3
2	12	3	TAAGCGGAGT	1244	6.0	0.3	1.5
7	6	4	TACATTATAC	1245	0.9	0.7	0.6
7	7	3	TCCAGTGATG	1246	1.0	0.4	0.4
3	6	8	TCTACCGTCA	1247	2.0	1.3	2.7
2	8	7	TGGATCTCAA	1248	4.0	0.9	3.5
3	9	5	TTTATTAATC	1249	3.0	0.6	1.7
7	8	2	TTTTAAGATA	1250	1.1	0.3	0.3
8	6	2	AAAAACATAT	1251	0.8	0.3	0.3
8	1	7	AAAGCTAACA	1252	0.1	7.0	0.9
5	6	5	AAGGAATTGA	1253	1.2	0.8	1.0
2	3	11	ACAGTGCAAG	1254	1.5	3.7	5.5
8	8	0	ACATCTCAAA	1255	1.0	0.0	0.0
10	1	5	ACATTTTTTA	1256	0.1	5.0	0.5
5	7	4	ACCCATCGGT	1257	1.4	0.6	0.8
3	7	6	ACGTAGGTGA	1258	2.3	0.9	2.0

Table 5, cont.

3	12	1	ACTTTTAAAA	1259	4.0	0.1	0.3
7	3	6	ATCGTGATAA	1260	0.4	2.0	0.9
8	4	4	CAAAAGACTG	1261	0.5	1.0	0.5
7	4	5	CAAAGAGAAG	1262	0.6	1.3	0.7
6	7	3	CACTTTAATT	1263	1.2	0.4	0.5
8	3	5	CCACCAATTA	1264	0.4	1.7	0.6
0	14	2	CCATACAGGT	1265	#DIV/0!	0.1	#DIV/0!
10	4	2	CCTGGCGTCA	1266	0.4	0.5	0.2
4	5	7	CTGGCTCTAA	1267	1.3	1.4	1.8
9	5	2	CTTTGGCATT	1268	0.6	0.4	0.2
6	4	6	GAACACAAGA	1269	0.7	1.5	1.0
7	6	3	GATAAGATTA	1270	0.9	0.5	0.4
4	5	7	GATACCTCCT	1271	1.3	1.4	1.8
3	7	6	GCTGCCTATG	1272	2.3	0.9	2.0
7	6	3	GCTTTGGCTA	1273	0.9	0.5	0.4
9	2	5	GTCATATGAA	1274	0.2	2.5	0.6
5	5	6	GTCTCCGAAG	1275	1.0	1.2	1.2
3	11	2	TAAGCAGCGT	1276	3.7	0.2	0.7
8	5	3	TATAAGAACT	1277	0.6	0.6	0.4
11	4	1	TCATTACATT	1278	0.4	0.3	0.1
8	5	3	TCCTCCAGAA	1279	0.6	0.6	0.4
7	4	5	TGATTATAAA	1280	0.6	1.3	0.7
7	6	3	TGTATGTGAA	1281	0.9	0.5	0.4
4	5	7	TTGAGTGAGC	1282	1.3	1.4	1.8
12	1	3	TTTTATTTCC	1283	0.1	3.0	0.3
6	3	6	AGCTTATTGA	1284	0.5	2.0	1.0
7	7	1	ATAAAAAAAA	1285	1.0	0.1	0.1
4	9	2	ATAACAACAA	1286	2.3	0.2	0.5

Table 5, cont.

7	8	0	ATATCAAAAA	1287	1.1	0.0	0.0
5	7	3	ATGCAGATTT	1288	1.4	0.4	0.6
4	8	3	ATGCTGTTAT	1289	2.0	0.4	0.8
6	3	6	ATTTGAGTTA	1290	0.5	2.0	1.0
4	4	7	CAACCAGTTT	1291	1.0	1.8	1.8
4	5	6	CCAACTAGAG	1292	1.3	1.2	1.5
9	2	4	CGAACGTAAA	1293	0.2	2.0	0.4
8	4	3	CTTTCTATAT	1294	0.5	0.8	0.4
6	3	6	CTTTGGCTGA	1295	0.5	2.0	1.0
6	5	4	GAAATGGAAG	1296	0.8	0.8	0.7
4	4	7	GAACCAGCTT	1297	1.0	1.8	1.8
6	3	6	GAAGTCGCAA	1298	0.5	2.0	1.0
5	5	5	GAATGGGATA	1299	1.0	1.0	1.0
1	5	9	GAGACTGCTA	1300	5.0	1.8	9.0
5	3	7	GATAACAAAA	1301	0.6	2.3	1.4
3	6	6	GCTCTAGCGC	1302	2.0	1.0	2.0
3	6	6	GGATTATACA	1303	2.0	1.0	2.0
4	3	8	GGTGATGAGG	1304	0.8	2.7	2.0
9	1	5	GTCCGCCAAA	1305	0.1	5.0	0.6
3	6	6	GTCGTACAGA	1306	2.0	1.0	2.0
5	7	3	TAAGAAACAA	1307	1.4	0.4	0.6
5	5	5	TACACCGCAT	1308	1.0	1.0	1.0
4	5	6	TGCGGCAACT	1309	1.3	1.2	1.5
4	7	4	TGCTCTGTGG	1310	1.8	0.6	1.0
3	5	7	TGGGATAGAC	1311	1.7	1.4	2.3
9	1	5	TGGTATTAGA	1312	0.1	5.0	0.6
2	8	5	TTGCAATAAT	1313	4.0	0.6	2.5
3	11	1	TTGCTGTACG	1314	3.7	0.1	0.3

Table 5, cont.

11	3	1	TTTTTACGTT	1315	0.3	0.3	0.1
11	2	2	TTTTTCGCTA	1316	0.2	1.0	0.2
6	5	3	AAACGAATTT	1317	0.8	0.6	0.5
5	6	3	AAAGAACTAA	1318	1.2	0.5	0.6
5	5	4	AACTTACGGG	1319	1.0	0.8	0.8
5	5	4	ACACCTGCTG	1320	1.0	0.8	0.8
2	3	9	ACCTGCTCGG	1321	1.5	3.0	4.5
7	4	3	ACGAAAACAT	1322	0.6	0.8	0.4
7	2	5	AGGTACATTG	1323	0.3	2.5	0.7
13	0	1	AGTTCAGAGT	1324	0.0	#DIV/0!	0.1
4	1	9	ATTCTTGATC	1325	0.3	9.0	2.3
1	4	9	CACTCCAGAA	1326	4.0	2.3	9.0
2	9	3	CATTCTTCTT	1327	4.5	0.3	1.5
5	6	3	CATTTGTGTA	1328	1.2	0.5	0.6
3	6	5	CCAAATCAAA	1329	2.0	0.8	1.7
5	4	5	CCACCACTTC	1330	0.8	1.3	1.0
3	6	5	CCTTAGTAGT	1331	2.0	0.8	1.7
4	3	7	CGAGAGGCCC	1332	0.8	2.3	1.8
2	11	1	CGCAAAAATT	1333	5.5	0.1	0.5
5	4	5	CTTTCGCAAC	1334	0.8	1.3	1.0
5	7	2	GAAGTTTTCC	1335	1.4	0.3	0.4
5	4	5	GAATTGTCAT	1336	0.8	1.3	1.0
3	5	6	GCAAGCTCGA	1337	1.7	1.2	2.0
4	5	5	GCGATGTGTA	1338	1.3	1.0	1.3
4	5	5	GGGTGGTATA	1339	1.3	1.0	1.3
6	5	3	GGGTTCTTCC	1340	0.8	0.6	0.5
7	5	2	GGTCGTTGAT	1341	0.7	0.4	0.3
4	3	7	GTAGGTGATG	1342	0.8	2.3	1.8

Table 5, cont.

1	5	8	GTCATTAACG	1343	5.0	1.6	8.0
8	4	2	TAAAAAAAAA	1344	0.5	0.5	0.3
3	8	3	TATATTCTCG	1345	2.7	0.4	1.0
4	5	5	TTAATTTGCT	1346	1.3	1.0	1.3
9	4	1	TTACTAGCCA	1347	0.4	0.3	0.1
4	4	6	TTAGTGAAGT	1348	1.0	1.5	1.5
6	3	5	TTGCACGGTA	1349	0.5	1.7	0.8
2	2	10	TTTGGTGGCG	1350	1.0	5.0	5.0
4	6	4	TTTGTTCCAC	1351	1.5	0.7	1.0
5	3	5	AACAAGTTGG	1352	0.6	1.7	1.0
6	1	6	AACGCTTGGG	1353	0.2	6.0	1.0
3	4	6	AAGAAGACCA	1354	1.3	1.5	2.0
5	4	4	AAGCGGTACT	1355	0.8	1.0	0.8
5	8	0	AATGAATATC	1356	1.6	0.0	0.0
2	8	3	ACGGTCTTAC	1357	4.0	0.4	1.5
8	2	3	AGGCAAAATT	1358	0.3	1.5	0.4
3	2	8	AGGGAAGTAA	1359	0.7	4.0	2.7
6	6	1	ATCTACGCTA	1360	1.0	0.2	0.2
4	3	6	ATTAACTTCG	1361	0.8	2.0	1.5
3	2	8	CATCAGCAAC	1362	0.7	4.0	2.7
2	5	6	CCACCTCAAT	1363	2.5	1.2	3.0
5	2	6	CCTTCAAAAT	1364	0.4	3.0	1.2
5	2	6	CTAAAGACGA	1365	0.4	3.0	1.2
11	2	0	CTACGGACGA	1366	0.2	0.0	0.0
3	6	4	GAAAACTCTC	1367	2.0	0.7	1.3
6	4	3	GAAATACGGC	1368	0.7	0.8	0.5
3	3	7	GAACGAGTAA	1369	1.0	2.3	2.3
2	1	10	GAAGAACTGG	1370	0.5	10.0	5.0

Table 5, cont.

4	4	5	GAAGAGAATG	1371	1.0	1.3	1.3
5	6	2	GAGACACCCA	1372	1.2	0.3	0.4
9	3	1	GCAATGTAAA	1373	0.3	0.3	0.1
6	4	3	GCACAAGCTC	1374	0.7	0.8	0.5
3	3	7	GGAGAAATCG	1375	1.0	2.3	2.3
4	2	7	GGCCTCAAAG	1376	0.5	3.5	1.8
2	6	5	GGCGAGATGC	1377	3.0	0.8	2.5
2	7	4	GGGCTCTCGT	1378	3.5	0.6	2.0
8	2	3	GGTTTCCCAG	1379	0.3	1.5	0.4
5	4	4	GTTCTACAGA	1380	0.8	1.0	0.8
4	6	3	GTTGCCAGAA	1381	1.5	0.5	0.8
5	3	5	GTTGTGGGAT	1382	0.6	1.7	1.0
0	9	4	TCCTTCAGTA	1383	#DIV/0!	0.4	#DIV/0!
6	7	0	TGAACAAATA	1384	1.2	0.0	0.0
4	4	5	TGCTAAGAAC	1385	1.0	1.3	1.3
1	0	12	TGGCAAAACT	1386	0.0	#DIV/0!	12.0
3	6	4	TTTCAAGATG	1387	2.0	0.7	1.3
3	3	7	TTTCCGCGGA	1388	1.0	2.3	2.3
5	6	2	TTTTTCTTTT	1389	1.2	0.3	0.4
5	1	6	AAAAATCACA	1390	0.2	6.0	1.2
2	7	3	AAACAATTTA	1391	3.5	0.4	1.5
6	3	3	AAATAGGGTC	1392	0.5	1.0	0.5
5	3	4	AAATGGGACT	1393	0.6	1.3	0.8
2	7	3	AACGCTTTTC	1394	3.5	0.4	1.5
8	1	3	AAGATTAGAT	1395	0.1	3.0	0.4
3	6	3	AAGCATAAAA	1396	2.0	0.5	1.0
4	4	4	AAGGATAAAA	1397	1.0	1.0	1.0
6	4	2	AGAAAAGTAT	1398	0.7	0.5	0.3

Table 5, cont.

4	7	1	AGCCTATTTA	1399	1.8	0.1	0.3
1	3	8	AGCTCTCTTA	1400	3.0	2.7	8.0
2	2	8	AGGGACTGTT	1401	1.0	4.0	4.0
8	3	1	ATAAAATTTT	1402	0.4	0.3	0.1
5	3	4	ATGGTTACTA	1403	0.6	1.3	0.8
5	2	5	CAAGTTTTGT	1404	0.4	2.5	1.0
3	5	4	CAATGAACCG	1405	1.7	0.8	1.3
1	5	6	CATACACTGA	1406	5.0	1.2	6.0
3	6	3	CATATGGCCA	1407	2.0	0.5	1.0
3	6	3	CATCATTGAT	1408	2.0	0.5	1.0
2	9	1	CGGGATATCC	1409	4.5	0.1	0.5
3	3	6	CTCACAAAAA	1410	1.0	2.0	2.0
3	4	5	CTGCAGCTGA	1411	1.3	1.3	1.7
4	2	6	CTGGCAAAAA	1412	0.5	3.0	1.5
1	8	3	CTTGTGGTTT	1413	8.0	0.4	3.0
6	3	3	GAAATCCAAA	1414	0.5	1.0	0.5
4	5	3	GAAGCCTTCT	1415	1.3	0.6	0.8
3	9	0	GAATAAAAAG	1416	3.0	0.0	0.0
8	2	2	GACGACAAAC	1417	0.3	1.0	0.3
3	4	5	GAGGATAGAG	1418	1.3	1.3	1.7
3	0	9	GATGTCGACG	1419	0.0	#DIV/0!	3.0
6	4	2	GATGTGGTGA	1420	0.7	0.5	0.3
4	3	5	GATTTCATCA	1421	0.8	1.7	1.3
3	4	5	GCATCTTGTT	1422	1.3	1.3	1.7
4	3	5	GCTTGAACAA	1423	0.8	1.7	1.3
5	3	4	GGAGAGAGTG	1424	0.6	1.3	0.8
9	0	3	GGCATCCGCC	1425	0.0	#DIV/0!	0.3
0	9	3	GTTCGAGACA	1426	#DIV/0!	0.3	#DIV/0!

Table 5, cont.

6	2	4	GTTTTCGAAA	1427	0.3	2.0	0.7
7	3	2	TAATTACTAG	1428	0.4	0.7	0.3
5	6	1	TATAAATTAC	1429	1.2	0.2	0.2
4	2	6	TATCGCTGGT	1430	0.5	3.0	1.5
4	6	2	TATGTCTGTA	1431	1.5	0.3	0.5
6	5	1	TCAAGTTTCA	1432	0.8	0.2	0.2
0	9	3	TCCCCGTACT	1433	#DIV/0!	0.3	#DIV/0!
4	6	2	TCCTATTAAG	1434	1.5	0.3	0.5
8	1	3	TCTACTTTGA	1435	0.1	3.0	0.4
7	4	1	TGAAGAAGCT	1436	0.6	0.3	0.1
2	5	5	TGAATGACTC	1437	2.5	1.0	2.5
4	2	6	TTAGAGAGAC	1438	0.5	3.0	1.5
5	3	4	TTCACGTACT	1439	0.6	1.3	0.8
7	5	0	TTTTCTTTTT	1440	0.7	0.0	0.0
4	2	5	AAACTTTTGG	1441	0.5	2.5	1.3
2	4	5	AAATGCAAAA	1442	2.0	1.3	2.5
5	4	2	AATTCGAACA	1443	0.8	0.5	0.4
2	7	2	ACCAGTGATG	1444	3.5	0.3	1.0
3	7	1	ACCGATAACG	1445	2.3	0.1	0.3
6	1	4	ACTCCGGGCG	1446	0.2	4.0	0.7
2	4	5	ACTGCTGGTA	1447	2.0	1.3	2.5
3	4	4	ACTTTTTCGC	1448	1.3	1.0	1.3
2	4	5	AGATGCTCAT	1449	2.0	1.3	2.5
1	1	9	AGATTGCCAC	1450	1.0	9.0	9.0
1	4	6	AGTTAGGCAC	1451	4.0	1.5	6.0
6	3	2	ATCTTTTTCA	1452	0.5	0.7	0.3
4	4	3	ATTTTTTGAT	1453	1.0	0.8	0.8
6	2	3	CACATTTTCA	1454	0.3	1.5	0.5

Table 5, cont.

2	1	8	CACTCTGGAC	1455	0.5	8.0	4.0
4	2	5	CAGCTAAAGA	1456	0.5	2.5	1.3
1	1	9	CATTTGCAAG	1457	1.0	9.0	9.0
8	2	1	CCCTAATTAA	1458	0.3	0.5	0.1
4	5	2	CCCTATTAAG	1459	1.3	0.4	0.5
1	5	5	CGCCTCCAGT	1460	5.0	1.0	5.0
3	0	8	CGGTGTAAGA	1461	0.0	#DIV/0!	2.7
1	4	6	CTAAGAAGGT	1462	4.0	1.5	6.0
1	2	8	CTGAACAAAG	1463	2.0	4.0	8.0
3	5	3	CTGATGGTAG	1464	1.7	0.6	1.0
7	1	3	CTGCTCAATT	1465	0.1	3.0	0.4
4	5	2	CTGGAGGGGA	1466	1.3	0.4	0.5
3	3	5	CTGGCAAAGT	1467	1.0	1.7	1.7
7	2	2	CTTGATCTCA	1468	0.3	1.0	0.3
6	4	1	GAAATTTGCT	1469	0.7	0.3	0.2
3	4	4	GACAATTCAA	1470	1.3	1.0	1.3
0	4	7	GAGGAAAGCT	1471	#DIV/0!	1.8	#DIV/0!
5	6	0	GATTAGATTA	1472	1.2	0.0	0.0
7	3	1	GATTTAAACT	1473	0.4	0.3	0.1
5	1	5	GCAAGAAGGA	1474	0.2	5.0	1.0
1	3	7	GCATCGTCAT	1475	3.0	2.3	7.0
3	6	2	GCTACTTGTC	1476	2.0	0.3	0.7
1	4	6	GCTGAGAAAC	1477	4.0	1.5	6.0
1	4	6	GGCAATAGAT	1478	4.0	1.5	6.0
1	0	10	GGGAAAGCTA	1479	0.0	#DIV/0!	10.0
4	5	2	GGTGAAACGT	1480	1.3	0.4	0.5
4	1	6	GGTTCCGGTT	1481	0.3	6.0	1.5
5	2	4	GTGACACGCT	1482	0.4	2.0	0.8

Table 5, cont.

0	8	3	TACGTAAGTT	1483	#DIV/0!	0.4	#DIV/0!
8	2	1	TACTGAGATA	1484	0.3	0.5	0.1
4	2	5	TAGATGTTAC	1485	0.5	2.5	1.3
6	0	5	TAGCTGCAAA	1486	0.0	#DIV/0!	0.8
6	4	1	TATAATGAAA	1487	0.7	0.3	0.2
4	4	3	TCGCCTTTTA	1488	1.0	0.8	0.8
4	0	7	TCTCCTAAGA	1489	0.0	#DIV/0!	1.8
4	7	0	TCTTTATATA	1490	1.8	0.0	0.0
4	1	6	TGACAAGTCC	1491	0.3	6.0	1.5
6	4	1	TGATTTTAAT	1492	0.7	0.3	0.2
2	5	4	TGTTTTTCCG	1493	2.5	0.8	2.0
3	2	6	TTATCGTTGA	1494	0.7	3.0	2.0
2	9	0	TTCTAGAATG	1495	4.5	0.0	0.0
4	6	1	TTTAATTGGT	1496	1.5	0.2	0.3
2	5	4	TTTCCATTGC	1497	2.5	0.8	2.0
2	5	3	AAAAATTGTT	1498	2.5	0.6	1.5
6	0	4	AAAGCCGCCT	1499	0.0	#DIV/0!	0.7
4	5	1	AACTTAGTTT	1500	1.3	0.2	0.3
3	1	6	AAGAGATTCA	1501	0.3	6.0	2.0
1	3	6	AAGAGTCACA	1502	3.0	2.0	6.0
9	0	1	AAGGAACTAT	1503	0.0	#DIV/0!	0.1
5	1	4	AAGGCGTTCG	1504	0.2	4.0	0.8
7	1	2	AATTGAAATA	1505	0.1	2.0	0.3
1	8	1	ACCACCACCA	1506	8.0	0.1	1.0
3	3	4	ACCCAGAAGT	1507	1.0	1.3	1.3
3	5	2	ACGACATAGA	1508	1.7	0.4	0.7
2	6	2	ACTCAAATTT	1509	3.0	0.3	1.0
2	5	3	AGAATTGAGT	1510	2.5	0.6	1.5

Table 5, cont.

0	3	7	AGACAGTTAG	1511	#DIV/0!	2.3	#DIV/0!
4	5	1	AGGAACTCGC	1512	1.3	0.2	0.3
2	5	3	AGGCAAAAAC	1513	2.5	0.6	1.5
1	6	3	AGTAGATTCA	1514	6.0	0.5	3.0
6	0	4	ATGAAGAAAC	1515	0.0	#DIV/0!	0.7
7	3	0	ATTTTAGTTT	1516	0.4	0.0	0.0
1	6	3	CAATGGCCCA	1517	6.0	0.5	3.0
5	2	3	CAGCAGGTTT	1518	0.4	1.5	0.6
4	4	2	CAGGAGCTAA	1519	1.0	0.5	0.5
3	4	3	CAGTTGCTGC	1520	1.3	0.8	1.0
3	3	4	CATATGTATG	1521	1.0	1.3	1.3
3	6	1	CCAGGTTCTG	1522	2.0	0.2	0.3
4	1	5	CCCCATTTCC	1523	0.3	5.0	1.3
2	1	7	CCGTTACCTC	1524	0.5	7.0	3.5
2	4	4	CTGATCAAGG	1525	2.0	1.0	2.0
3	6	1	CTGGAATTAT	1526	2.0	0.2	0.3
5	3	2	GAAAAAAAAA	1527	0.6	0.7	0.4
5	4	1	GACGGCGCCG	1528	0.8	0.3	0.2
3	2	5	GAGAACATTA	1529	0.7	2.5	1.7
4	5	1	GAGCAATCCA	1530	1.3	0.2	0.3
2	4	4	GATCACCGAC	1531	2.0	1.0	2.0
2	4	4	GCAACAAAAG	1532	2.0	1.0	2.0
1	4	5	GCAATGGCTG	1533	4.0	1.3	5.0
2	3	5	GCAGGTGCTG	1534	1.5	1.7	2.5
6	2	2	GCAGTAGAAG	1535	0.3	1.0	0.3
3	6	1	GCGAAAGAGC	1536	2.0	0.2	0.3
0	5	5	GCGCCTCCAA	1537	#DIV/0!	1.0	#DIV/0!
4	5	1	GCGCTGAAGA	1538	1.3	0.2	0.3

Table 5, cont.

6	2	2	GCGTGAAACG	1539	0.3	1.0	0.3
1	6	3	GCTCCGTCGT	1540	6.0	0.5	3.0
2	4	4	GGATAAATAA	1541	2.0	1.0	2.0
4	2	4	GGATATTACC	1542	0.5	2.0	1.0
0	9	1	GGCAACACCT	1543	#DIV/0!	0.1	#DIV/0!
3	4	3	GGCCACTAGT	1544	1.3	0.8	1.0
4	4	2	GGCCGATAAA	1545	1.0	0.5	0.5
3	0	7	GGGTGTTAAC	1546	0.0	#DIV/0!	2.3
4	4	2	GGTGGATTCT	1547	1.0	0.5	0.5
3	3	4	GTAAATTTCA	1548	1.0	1.3	1.3
4	2	4	GTGTCGGACG	1549	0.5	2.0	1.0
2	2	6	GTTGGTGAAT	1550	1.0	3.0	3.0
4	1	5	GTTGGTTTTG	1551	0.3	5.0	1.3
1	6	3	TACATAAAGT	1552	6.0	0.5	3.0
4	4	2	TACCCGTAGA	1553	1.0	0.5	0.5
7	1	2	TATGAAGGAC	1554	0.1	2.0	0.3
9	1	0	TCATTCAAGT	1555	0.1	0.0	0.0
5	4	1	TCCCCGACAT	1556	0.8	0.3	0.2
4	3	3	TCTCTGACAG	1557	0.8	1.0	0.8
3	3	4	TCTGCGCTCT	1558	1.0	1.3	1.3
1	4	5	TGATAGCCAT	1559	4.0	1.3	5.0
1	0	9	TGATTGTCGG	1560	0.0	#DIV/0!	9.0
1	1	8	TGCCAGACTC	1561	1.0	8.0	8.0
3	5	2	TGCTGAATTG	1562	1.7	0.4	0.7
2	2	6	TGGCTGAGGA	1563	1.0	3.0	3.0
3	3	4	TGGTTGTCTA	1564	1.0	1.3	1.3
3	4	3	TTACGTTTAG	1565	1.3	0.8	1.0
2	5	3	TTATCAGAGG	1566	2.5	0.6	1.5

Table 5, cont.

2	4	4	TTCGTTTACT	1567	2.0	1.0	2.0
3	6	1	TTCTGTGTGA	1568	2.0	0.2	0.3
1	3	6	TTCTTACCCA	1569	3.0	2.0	6.0
7	2	1	TTGATTTGGA	1570	0.3	0.5	0.1
1	7	2	TTGTGAGTAC	1571	7.0	0.3	2.0
3	5	2	TTTCCGTCTC	1572	1.7	0.4	0.7
3	4	3	TTTCGGGCAC	1573	1.3	0.8	1.0
0	5	5	TTTCTAAAAA	1574	#DIV/0!	1.0	#DIV/0!
4	4	2	TTTGAACCAC	1575	1.0	0.5	0.5
3	3	3	AAAATGTAGG	1576	1.0	1.0	1.0
2	1	6	AAACAAGTTC	1577	0.5	6.0	3.0
1	5	3	AAAGAAGAAG	1578	5.0	0.6	3.0
7	2	0	AAATTAATGT	1579	0.3	0.0	0.0
2	3	4	AAATTGATTA	1580	1.5	1.3	2.0
3	1	5	AACGTTCGTG	1581	0.3	5.0	1.7
2	2	5	AAGAAAAGGC	1582	1.0	2.5	2.5
3	3	3	AAGACGAAGA	1583	1.0	1.0	1.0
3	3	3	AAGGGTTATG	1584	1.0	1.0	1.0
1	6	2	AATCGACTTT	1585	6.0	0.3	2.0
4	3	2	AATGAAAGTC	1586	0.8	0.7	0.5
3	2	4	ACACGGGCCG	1587	0.7	2.0	1.3
2	3	4	ACATTCCTGG	1588	1.5	1.3	2.0
3	2	4	ACCCACGTGT	1589	0.7	2.0	1.3
3	4	2	ACTCCACTAC	1590	1.3	0.5	0.7
2	6	1	ACTGTGTTCA	1591	3.0	0.2	0.5
4	2	3	ACTGTTACCT	1592	0.5	1.5	0.8
3	3	3	AGACAACTGT	1593	1.0	1.0	1.0
2	5	2	AGACTTGTCT	1594	2.5	0.4	1.0

Table 5, cont.

1	6	2	AGGAGTCATC	1595	6.0	0.3	2.0
3	4	2	ATATTTGTTC	1596	1.3	0.5	0.7
3	3	3	ATCTGTATTT	1597	1.0	1.0	1.0
1	5	3	ATGCTGCCCA	1598	5.0	0.6	3.0
3	1	5	ATTTCAGATT	1599	0.3	5.0	1.7
3	3	3	ATTTTGTTGT	1600	1.0	1.0	1.0
1	7	1	CATATATATT	1601	7.0	0.1	1.0
2	5	2	CCTTTGAAGA	1602	2.5	0.4	1.0
3	3	3	CGAATAAAAA	1603	1.0	1.0	1.0
1	2	6	CGAGAGAGGT	1604	2.0	3.0	6.0
3	3	3	CGCATATGCT	1605	1.0	1.0	1.0
5	3	1	CGCCTCCCTC	1606	0.6	0.3	0.2
3	3	3	CGGGGTATCG	1607	1.0	1.0	1.0
3	2	4	CGGTAAATCC	1608	0.7	2.0	1.3
2	7	0	CTTATATAAA	1609	3.5	0.0	0.0
1	5	3	GAAATAGGTA	1610	5.0	0.6	3.0
1	5	3	GAACCATATT	1611	5.0	0.6	3.0
4	1	4	GAAGGATTGG	1612	0.3	4.0	1.0
3	2	4	GACACTTTTA	1613	0.7	2.0	1.3
2	4	3	GACGCACGTT	1614	2.0	0.8	1.5
1	4	4	GACTATTTGT	1615	4.0	1.0	4.0
2	3	4	GAGTGTTTAC	1616	1.5	1.3	2.0
3	2	4	GATCCAGACG	1617	0.7	2.0	1.3
4	0	5	GATGGTAGTG	1618	0.0	#DIV/0!	1.3
2	2	5	GCACAGAATT	1619	1.0	2.5	2.5
7	1	1	GCCGTGGAAG	1620	0.1	1.0	0.1
1	5	3	GCCTTACAAA	1621	5.0	0.6	3.0
2	3	4	GCGAAACAGG	1622	1.5	1.3	2.0

Table 5, cont.

1	4	4	GCTAAGAACC	1623	4.0	1.0	4.0
2	5	2	GCTCTTATAC	1624	2.5	0.4	1.0
5	2	2	GGATGCAGAA	1625	0.4	1.0	0.4
2	1	6	GGCGCAATTT	1626	0.5	6.0	3.0
1	1	7	GGCTAGGTTT	1627	1.0	7.0	7.0
4	3	2	GGCTTACCTT	1628	0.8	0.7	0.5
2	4	3	GGGAAGAGCT	1629	2.0	0.8	1.5
0	2	7	GGTGTTACGA	1630	#DIV/0!	3.5	#DIV/0!
3	3	3	GTATAGCTCA	1631	1.0	1.0	1.0
2	1	6	GTCACCATTG	1632	0.5	6.0	3.0
3	4	2	GTCGTCGCCA	1633	1.3	0.5	0.7
4	1	4	GTGATGAACT	1634	0.3	4.0	1.0
5	0	4	GTGCTGCCTC	1635	0.0	#DIV/0!	0.8
5	3	1	GTTCCATTTG	1636	0.6	0.3	0.2
5	2	2	GTTGGACGGT	1637	0.4	1.0	0.4
1	6	2	GTTTCTATAT	1638	6.0	0.3	2.0
6	3	0	TAAGTGATGA	1639	0.5	0.0	0.0
5	3	1	TATCTATTTT	1640	0.6	0.3	0.2
4	2	3	TCAAGGAACT	1641	0.5	1.5	0.8
4	4	1	TCCCCGTAAT	1642	1.0	0.3	0.3
0	9	0	TCGTTAAAAG	1643	#DIV/0!	0.0	#DIV/0!
3	3	3	TGCATATATG	1644	1.0	1.0	1.0
0	2	7	TGCTTTGAAT	1645	#DIV/0!	3.5	#DIV/0!
1	2	6	TGGCCTTCAA	1646	2.0	3.0	6.0
2	3	4	TGGCGGACAT	1647	1.5	1.3	2.0
3	4	2	TGGGTCACTG	1648	1.3	0.5	0.7
4	4	1	TGTATACAAA	1649	1.0	0.3	0.3
4	2	3	TGTCCTCAAT	1650	0.5	1.5	0.8

Table 5, cont.

3	4	2	TTAATTCATC	1651	1.3	0.5	0.7
5	2	2	TTGAGGAACG	1652	0.4	1.0	0.4
2	3	4	TTGTCCGCAC	1653	1.5	1.3	2.0
3	4	2	TTGTTGAATT	1654	1.3	0.5	0.7
4	2	3	TTTAAGAAGA	1655	0.5	1.5	0.8
0	6	2	AAAAGTCGTT	1656	#DIV/0!	0.3	#DIV/0!
1	5	2	AAATTAGGTA	1657	5.0	0.4	2.0
5	0	3	AAGCTGAATT	1658	0.0	#DIV/0!	0.6
4	2	2	AAGCTGCTGA	1659	0.5	1.0	0.5
4	4	0	AAGGACTTGT	1660	1.0	0.0	0.0
3	3	2	AATAAAAAAA	1661	1.0	0.7	0.7
3	1	4	AATATAGAAA	1662	0.3	4.0	1.3
2	6	0	AATCAATTTA	1663	3.0	0.0	0.0
3	3	2	AATTTCCTTT	1664	1.0	0.7	0.7
2	3	3	ACAAAGATGA	1665	1.5	1.0	1.5
2	5	1	ACATATGTTA	1666	2.5	0.2	0.5
3	3	2	ACCTGTGTAC	1667	1.0	0.7	0.7
0	2	6	ACGACAACTT	1668	#DIV/0!	3.0	#DIV/0!
3	3	2	AGACAAAACC	1669	1.0	0.7	0.7
1	1	6	AGCAGGAGTT	1670	1.0	6.0	6.0
3	4	1	ATAAATTTTC	1671	1.3	0.3	0.3
0	5	3	ATCACCAAAG	1672	#DIV/0!	0.6	#DIV/0!
2	1	5	ATCAGACAAA	1673	0.5	5.0	2.5
1	4	3	ATCAGATGGG	1674	4.0	0.8	3.0
4	3	1	ATCCTAGAAA	1675	0.8	0.3	0.3
0	2	6	ATGAAGGTCC	1676	#DIV/0!	3.0	#DIV/0!
1	5	2	ATGAAGTCGT	1677	5.0	0.4	2.0
1	5	2	ATGACCAACC	1678	5.0	0.4	2.0

Table 5, cont.

3	3	2	ATGATCAACC	1679	1.0	0.7	0.7
2	2	4	ATGATCGGGA	1680	1.0	2.0	2.0
1	1	6	ATGCTCGGCT	1681	1.0	6.0	6.0
2	3	3	ATGCTTTACC	1682	1.5	1.0	1.5
4	2	2	ATGGACAGTG	1683	0.5	1.0	0.5
2	3	3	ATGGCACCGA	1684	1.5	1.0	1.5
2	4	2	ATGGGGCACG	1685	2.0	0.5	1.0
2	2	4	ATTCGTTCTA	1686	1.0	2.0	2.0
3	3	2	CAAAAAAAAA	1687	1.0	0.7	0.7
4	2	2	CAAATAGTTT	1688	0.5	1.0	0.5
2	2	4	CAAGTAGCAA	1689	1.0	2.0	2.0
2	4	2	CACAAGAATA	1690	2.0	0.5	1.0
6	1	1	CAGAAAAGAA	1691	0.2	1.0	0.2
3	1	4	CCATTTGCTC	1692	0.3	4.0	1.3
5	1	2	CCCCTTGATA	1693	0.2	2.0	0.4
1	4	3	CCCTACACGG	1694	4.0	0.8	3.0
2	5	1	CGACGGGAGT	1695	2.5	0.2	0.5
2	2	4	CTAGCCGCAT	1696	1.0	2.0	2.0
4	2	2	CTATTCGTTG	1697	0.5	1.0	0.5
3	3	2	CTTCGACGGC	1698	1.0	0.7	0.7
1	5	2	GAAAGAACGA	1699	5.0	0.4	2.0
4	0	4	GAAATTATTC	1700	0.0	#DIV/0!	1.0
1	0	7	GAAGCAGTAA	1701	0.0	#DIV/0!	7.0
4	2	2	GACAACTTCA	1702	0.5	1.0	0.5
1	5	2	GACAATTCAT	1703	5.0	0.4	2.0
4	2	2	GAGGCTGGTT	1704	0.5	1.0	0.5
5	0	3	GATTTTTATT	1705	0.0	#DIV/0!	0.6
0	3	5	GCAAGAAAAA	1706	#DIV/0!	1.7	#DIV/0!

Table 5, cont.

2	4	2	GCATAAATAC	1707	2.0	0.5	1.0
4	1	3	GCATTTTTTC	1708	0.3	3.0	0.8
0	5	3	GCCAAGGAAT	1709	#DIV/0!	0.6	#DIV/0!
0	5	3	GCCTACAACT	1710	#DIV/0!	0.6	#DIV/0!
2	5	1	GCGTAATGAC	1711	2.5	0.2	0.5
1	5	2	GGCCACCTAT	1712	5.0	0.4	2.0
3	0	5	GGTACAGTTG	1713	0.0	#DIV/0!	1.7
2	3	3	GGTACCAACT	1714	1.5	1.0	1.5
3	1	4	GGTGGATACC	1715	0.3	4.0	1.3
3	3	2	GTAATACTTT	1716	1.0	0.7	0.7
1	5	2	GTAATTGGAC	1717	5.0	0.4	2.0
0	5	3	GTACCTCATT	1718	#DIV/0!	0.6	#DIV/0!
1	6	1	GTCAAGGTTT	1719	6.0	0.2	1.0
1	4	3	GTCCATCGGC	1720	4.0	0.8	3.0
4	2	2	GTCGTCAAGC	1721	0.5	1.0	0.5
4	1	3	GTCTAAACTG	1722	0.3	3.0	0.8
2	2	4	GTGATGGATG	1723	1.0	2.0	2.0
4	2	2	GTGATTTTCC	1724	0.5	1.0	0.5
2	2	4	GTTATTTGTC	1725	1.0	2.0	2.0
3	4	1	GTTTTTTCTT	1726	1.3	0.3	0.3
1	4	3	TAAATGTGTC	1727	4.0	0.8	3.0
2	3	3	TAACAAAAGT	1728	1.5	1.0	1.5
2	4	2	TAACAGCGTA	1729	2.0	0.5	1.0
5	3	0	TAACATATAT	1730	0.6	0.0	0.0
4	2	2	TACATATTAT	1731	0.5	1.0	0.5
0	5	3	TACGTGTATT	1732	#DIV/0!	0.6	#DIV/0!
6	1	1	TACTACATAC	1733	0.2	1.0	0.2
2	4	2	TACTACTAAA	1734	2.0	0.5	1.0

Table 5, cont.

5	2	1	TACTATTGAA	1735	0.4	0.5	0.2
2	3	3	TAGATGCATC	1736	1.5	1.0	1.5
1	7	0	TAGTTTTTTT	1737	7.0	0.0	0.0
2	5	1	TATGGTAAAT	1738	2.5	0.2	0.5
0	3	5	TATGTATCTG	1739	#DIV/0!	1.7	#DIV/0!
3	5	0	TCAAACATCC	1740	1.7	0.0	0.0
0	6	2	TCAGCTAATT	1741	#DIV/0!	0.3	#DIV/0!
1	1	6	TCATTTGACT	1742	1.0	6.0	6.0
2	3	3	TCCAAATTCT	1743	1.5	1.0	1.5
3	5	0	TCCAGAACCA	1744	1.7	0.0	0.0
3	3	2	TCCCATTAAG	1745	1.0	0.7	0.7
1	6	1	TCGTACCTTT	1746	6.0	0.2	1.0
1	3	4	TCTCTCCATT	1747	3.0	1.3	4.0
3	4	1	TGCTGCTGAA	1748	1.3	0.3	0.3
5	3	0	TGTATGTATA	1749	0.6	0.0	0.0
2	2	4	TGTGCGTATA	1750	1.0	2.0	2.0
4	4	0	TTACACTAAA	1751	1.0	0.0	0.0
0	7	1	TTATGAAAGA	1752	#DIV/0!	0.1	#DIV/0!
0	6	2	TTCACCCTTC	1753	#DIV/0!	0.3	#DIV/0!
2	3	3	TTCAGCAGGA	1754	1.5	1.0	1.5
3	2	3	TTCGTCTTTT	1755	0.7	1.5	1.0
2	5	1	TTCTTGATGA	1756	2.5	0.2	0.5
1	2	5	TTTGAATCTG	1757	2.0	2.5	5.0
2	4	2	TTTGCGAGAA	1758	2.0	0.5	1.0
3	4	1	TTTGGTGCTG	1759	1.3	0.3	0.3
3	5	0	TTTTTCAAAA	1760	1.7	0.0	0.0
3	4	0	AAAGACATAT	1761	1.3	0.0	0.0
1	4	2	AAAGAGGGAA	1762	4.0	0.5	2.0

Table 5, cont.

3	2	2	AAAGTTCTAG	1763	0.7	1.0	0.7
5	1	1	AACAACTCAA	1764	0.2	1.0	0.2
1	3	3	AACAGGCATC	1765	3.0	1.0	3.0
2	2	3	AACATTACTT	1766	1.0	1.5	1.5
0	6	1	AAGAGCAACG	1767	#DIV/0!	0.2	#DIV/0!
0	4	3	AAGCTGAGGA	1768	#DIV/0!	0.8	#DIV/0!
1	2	4	AAGTGAAGGA	1769	2.0	2.0	4.0
4	2	1	AATACACTTT	1770	0.5	0.5	0.3
2	2	3	AATGCTCCAG	1771	1.0	1.5	1.5
3	3	1	AATTAGTGGA	1772	1.0	0.3	0.3
2	2	3	ACAATGAATT	1773	1.0	1.5	1.5
1	3	3	ACCACTTGGA	1774	3.0	1.0	3.0
0	5	2	ACCATCCACG	1775	#DIV/0!	0.4	#DIV/0!
0	0	7	ACGAAATTCC	1776	#DIV/0!	#DIV/0!	#DIV/0!
2	2	3	ACTATCGAAG	1777	1.0	1.5	1.5
2	1	4	ACTTGGCAAA	1778	0.5	4.0	2.0
4	1	2	AGAACTTCGT	1779	0.3	2.0	0.5
2	4	1	AGAATTGGTT	1780	2.0	0.3	0.5
3	1	3	AGACGAACTG	1781	0.3	3.0	1.0
5	1	1	AGAGCTTTTA	1782	0.2	1.0	0.2
0	0	7	AGCAAACTGT	1783	#DIV/0!	#DIV/0!	#DIV/0!
1	0	6	AGCGTCCTCA	1784	0.0	#DIV/0!	6.0
1	2	4	AGCTCATTGG	1785	2.0	2.0	4.0
3	1	3	AGGATGAAGA	1786	0.3	3.0	1.0
4	2	1	AGTGATTCTC	1787	0.5	0.5	0.3
4	0	3	ATACCTTGGT	1788	0.0	#DIV/0!	0.8
1	4	2	ATAGCACCAA	1789	4.0	0.5	2.0
4	0	3	ATAGGAAAGC	1790	0.0	#DIV/0!	0.8

Table 5, cont.

2	5	0	ATAGTAACGA	1791	2.5	0.0	0.0
2	3	2	ATAGTAAGGT	1792	1.5	0.7	1.0
3	2	2	ATATCAAACA	1793	0.7	1.0	0.7
1	4	2	ATCTTGTCGT	1794	4.0	0.5	2.0
0	7	0	ATGCTGAACC	1795	#DIV/0!	0.0	#DIV/0!
1	0	6	ATGCTGGTAG	1796	0.0	#DIV/0!	6.0
5	1	1	ATGTCGCCTC	1797	0.2	1.0	0.2
4	2	1	ATGTTTCTTA	1798	0.5	0.5	0.3
2	2	3	ATTCAAGATA	1799	1.0	1.5	1.5
2	3	2	ATTGAATGAA	1800	1.5	0.7	1.0
2	0	5	ATTGCATCTC	1801	0.0	#DIV/0!	2.5
0	6	1	CAAAGCCATC	1802	#DIV/0!	0.2	#DIV/0!
4	1	2	CAAATAAGGG	1803	0.3	2.0	0.5
1	3	3	CAACTGTTGA	1804	3.0	1.0	3.0
1	5	1	CAAGACAGTT	1805	5.0	0.2	1.0
0	5	2	CACAGCATCA	1806	#DIV/0!	0.4	#DIV/0!
4	1	2	CACATCTATA	1807	0.3	2.0	0.5
4	1	2	CAGAGTTTGA	1808	0.3	2.0	0.5
2	4	1	CAGATATAAT	1809	2.0	0.3	0.5
3	1	3	CAGCAAATAA	1810	0.3	3.0	1.0
1	3	3	CAGCAGTGCA	1811	3.0	1.0	3.0
4	2	1	CATACTTTCA	1812	0.5	0.5	0.3
5	2	0	CATTTTTAGT	1813	0.4	0.0	0.0
3	3	1	CATTTTTATG	1814	1.0	0.3	0.3
1	3	3	CCAAAAGGCA	1815	3.0	1.0	3.0
2	4	1	CCAAAAGGGA	1816	2.0	0.3	0.5
1	3	3	CCCTCCCTAA	1817	3.0	1.0	3.0
3	3	1	CCGACTACAT	1818	1.0	0.3	0.3

Table 5, cont.

2	1	4	CCGTTCCGAA	1819	0.5	4.0	2.0
1	6	0	CGCTTGCTAT	1820	6.0	0.0	0.0
4	1	2	CGGTTCTACC	1821	0.3	2.0	0.5
2	2	3	CTAAAGAGCC	1822	1.0	1.5	1.5
2	1	4	CTAAGCAGGA	1823	0.5	4.0	2.0
2	0	5	CTAGTTTTGC	1824	0.0	#DIV/0!	2.5
3	3	1	CTATTATAAA	1825	1.0	0.3	0.3
2	3	2	CTCATTTTAA	1826	1.5	0.7	1.0
2	2	3	CTGCGAAAAG	1827	1.0	1.5	1.5
3	1	3	CTGTTTCTGA	1828	0.3	3.0	1.0
2	0	5	CTGTTTTGGG	1829	0.0	#DIV/0!	2.5
2	4	1	CTTGCAGAAG	1830	2.0	0.3	0.5
1	4	2	GAAAATAGCA	1831	4.0	0.5	2.0
1	1	5	GAAAGTGATG	1832	1.0	5.0	5.0
4	0	3	GAACGGTTGT	1833	0.0	#DIV/0!	0.8
5	1	1	GAAGACCTAC	1834	0.2	1.0	0.2
1	2	4	GAAGATTGTA	1835	2.0	2.0	4.0
2	1	4	GAAGTGGACG	1836	0.5	4.0	2.0
4	2	1	GAATACTGCA	1837	0.5	0.5	0.3
4	2	1	GACAAGCTAT	1838	0.5	0.5	0.3
1	5	1	GACAGTCAGT	1839	5.0	0.2	1.0
3	3	1	GACCCTTCCT	1840	1.0	0.3	0.3
1	3	3	GACGATAGTG	1841	3.0	1.0	3.0
2	3	2	GAGCTTTTGG	1842	1.5	0.7	1.0
3	1	3	GATAGTTTAG	1843	0.3	3.0	1.0
2	4	1	GATTAAGACA	1844	2.0	0.3	0.5
5	2	0	GCAAAATAGT	1845	0.4	0.0	0.0
4	0	3	GCAAAGCAAA	1846	0.0	#DIV/0!	0.8

Table 5, cont.

4	1	2	GCAAGTCGCA	1847	0.3	2.0	0.5
3	1	3	GCATAATCTG	1848	0.3	3.0	1.0
2	3	2	GCATACGCTG	1849	1.5	0.7	1.0
3	4	0	GCCGCATTTG	1850	1.3	0.0	0.0
4	1	2	GCCGGCTGGC	1851	0.3	2.0	0.5
1	2	4	GCGTCAAGAT	1852	2.0	2.0	4.0
0	6	1	GCTATGAATT	1853	#DIV/0!	0.2	#DIV/0!
2	2	3	GCTATGTACA	1854	1.0	1.5	1.5
4	1	2	GCTTGTTTTC	1855	0.3	2.0	0.5
3	2	2	GGAAAAATAC	1856	0.7	1.0	0.7
1	3	3	GGAACTCAGC	1857	3.0	1.0	3.0
2	0	5	GGATGCAATC	1858	0.0	#DIV/0!	2.5
2	2	3	GGATGGCTCG	1859	1.0	1.5	1.5
2	2	3	GGGAAGAACT	1860	1.0	1.5	1.5
2	1	4	GGTAGTGGCA	1861	0.5	4.0	2.0
0	3	4	GGTCTCATCC	1862	#DIV/0!	1.3	#DIV/0!
3	2	2	GGTGCTAACG	1863	0.7	1.0	0.7
2	1	4	GGTGTCAACG	1864	0.5	4.0	2.0
1	2	4	GGTGTTACCG	1865	2.0	2.0	4.0
2	2	3	GGTGTTGGTA	1866	1.0	1.5	1.5
5	2	0	GGTTTGGACA	1867	0.4	0.0	0.0
3	0	4	GGTTTGGCTA	1868	0.0	#DIV/0!	1.3
2	0	5	GGTTTGGTTT	1869	0.0	#DIV/0!	2.5
2	5	0	GTAATAACGA	1870	2.5	0.0	0.0
2	3	2	GTACAAGGGT	1871	1.5	0.7	1.0
2	1	4	GTAGACCAAC	1872	0.5	4.0	2.0
2	2	3	GTATCAGAAA	1873	1.0	1.5	1.5
0	4	3	GTCTACCCTG	1874	#DIV/0!	0.8	#DIV/0!

Table 5, cont.

6	1	0	GTGATTCCTA	1875	0.2	0.0	0.0
4	0	3	GTGATTTGTC	1876	0.0	#DIV/0!	0.8
2	4	1	GTGGTTAAAA	1877	2.0	0.3	0.5
4	1	2	GTGTAGAGAA	1878	0.3	2.0	0.5
2	4	1	GTGTAGGATA	1879	2.0	0.3	0.5
1	3	3	GTGTTCGTGT	1880	3.0	1.0	3.0
2	1	4	GTTGAGGAAC	1881	0.5	4.0	2.0
0	5	2	GTTGGCTGTT	1882	#DIV/0!	0.4	#DIV/0!
5	2	0	TAAACTATTT	1883	0.4	0.0	0.0
2	1	4	TAAAGTGAAT	1884	0.5	4.0	2.0
2	2	3	TAAATAGTGC	1885	1.0	1.5	1.5
1	2	4	TAACTTTCGA	1886	2.0	2.0	4.0
1	3	3	TAAGCCCATC	1887	3.0	1.0	3.0
2	1	4	TACACTCCCG	1888	0.5	4.0	2.0
2	5	0	TACCCTATTA	1889	2.5	0.0	0.0
6	1	0	TACCGCCCTT	1890	0.2	0.0	0.0
5	2	0	TACCGTTAAA	1891	0.4	0.0	0.0
5	1	1	TATAGAGTTT	1892	0.2	1.0	0.2
4	2	1	TATCTCTTGT	1893	0.5	0.5	0.3
3	3	1	TATTGGTAGA	1894	1.0	0.3	0.3
2	5	0	TCAATTGGAG	1895	2.5	0.0	0.0
4	0	3	TCAATTTGAA	1896	0.0	#DIV/0!	0.8
4	2	1	TCACTTTTTT	1897	0.5	0.5	0.3
1	1	5	TCCATAGTAA	1898	1.0	5.0	5.0
3	3	1	TCCCCCGTAC	1899	1.0	0.3	0.3
3	4	0	TCCCCTACAT	1900	1.3	0.0	0.0
2	3	2	TCCTGATTAT	1901	1.5	0.7	1.0
3	1	3	TCTGTGAAAC	1902	0.3	3.0	1.0

Table 5, cont.

1	3	3	TCTTACAATA	1903	3.0	1.0	3.0
0	5	2	TGGATTTCAG	1904	#DIV/0!	0.4	#DIV/0!
1	2	4	TGGCACCTCA	1905	2.0	2.0	4.0
1	4	2	TGGGAGTCGT	1906	4.0	0.5	2.0
2	3	2	TGTACCTGTA	1907	1.5	0.7	1.0
1	4	2	TGTTTTTTAC	1908	4.0	0.5	2.0
1	5	1	TTAAAACAAA	1909	5.0	0.2	1.0
1	3	3	TTAACACAGA	1910	3.0	1.0	3.0
6	1	0	TTAATGACAC	1911	0.2	0.0	0.0
1	6	0	TTAGTTTTGG	1912	6.0	0.0	0.0
4	2	1	TTATGTAGAT	1913	0.5	0.5	0.3
1	5	1	TTATTTCGTT	1914	5.0	0.2	1.0
2	2	3	TTCCCACCGT	1915	1.0	1.5	1.5
1	4	2	TTCTATTAGG	1916	4.0	0.5	2.0
1	3	3	TTGAAAAAAA	1917	3.0	1.0	3.0
2	2	3	TTGAAAAGAT	1918	1.0	1.5	1.5
3	3	1	TTGAAAATTT	1919	1.0	0.3	0.3
0	4	3	TTGCCAGTCC	1920	#DIV/0!	0.8	#DIV/0!
3	2	2	TTGCTGGAAG	1921	0.7	1.0	0.7
7	0	0	TTGGTATGAT	1922	0.0	#DIV/0!	0.0
1	1	5	TTGTCTTTCC	1923	1.0	5.0	5.0
0	4	3	TTGTGCCCAT	1924	#DIV/0!	0.8	#DIV/0!
3	2	2	TTTTCTAGAA	1925	0.7	1.0	0.7
7	0	0	TTTTTGATGA	1926	0.0	#DIV/0!	0.0
1	2	3	AAAAAGGCGT	1927	2.0	1.5	3.0
1	5	0	AAAACGTAAC	1928	5.0	0.0	0.0
2	3	1	AAAAGTTTAA	1929	1.5	0.3	0.5
3	1	2	AAAATGCAAA	1930	0.3	2.0	0.7

Table 5, cont.

3	2	1	AAAGAAGATG	1931	0.7	0.5	0.3
0	4	2	AAAGATGGGA	1932	#DIV/0!	0.5	#DIV/0!
4	1	1	AAATTAGATA	1933	0.3	1.0	0.3
3	3	0	AACAAATTGA	1934	1.0	0.0	0.0
1	4	1	AACAACAACA	1935	4.0	0.3	1.0
2	2	2	AACGGCCAAA	1936	1.0	1.0	1.0
3	1	2	AACGGCCAGA	1937	0.3	2.0	0.7
2	3	1	AACGTAACTA	1938	1.5	0.3	0.5
2	3	1	AACTTTTGGC	1939	1.5	0.3	0.5
0	2	4	AAGAAAGGAT	1940	#DIV/0!	2.0	#DIV/0!
3	1	2	AAGACCAAGA	1941	0.3	2.0	0.7
3	1	2	AAGACTGTCG	1942	0.3	2.0	0.7
0	1	5	AAGCGATGAG	1943	#DIV/0!	5.0	#DIV/0!
6	0	0	AAGGCAGGGT	1944	0.0	#DIV/0!	0.0
1	3	2	AAGGTGCCAG	1945	3.0	0.7	2.0
1	3	2	AAGTGCAAAA	1946	3.0	0.7	2.0
1	2	3	AAGTGTTGCG	1947	2.0	1.5	3.0
1	1	4	AATATGCCGC	1948	1.0	4.0	4.0
3	1	2	AATCTCAAAA	1949	0.3	2.0	0.7
1	0	5	AATGACACTT	1950	0.0	#DIV/0!	5.0
2	3	1	AATGTGTAAT	1951	1.5	0.3	0.5
3	2	1	AATTAGACTA	1952	0.7	0.5	0.3
3	3	0	ACAAATAACT	1953	1.0	0.0	0.0
2	2	2	ACAAGAAAGT	1954	1.0	1.0	1.0
4	0	2	ACAAGATTTA	1955	0.0	#DIV/0!	0.5
4	1	1	ACACTATTTC	1956	0.3	1.0	0.3
2	0	4	ACAGCAAACG	1957	0.0	#DIV/0!	2.0
0	1	5	ACCACCCCTG	1958	#DIV/0!	5.0	#DIV/0!

Table 5, cont.

2	1	3	ACCAGATTGA	1959	0.5	3.0	1.5
3	0	3	ACCCGGCTTC	1960	0.0	#DIV/0!	1.0
1	2	3	ACCCTTCGAA	1961	2.0	1.5	3.0
3	2	1	ACCTGAGGTC	1962	0.7	0.5	0.3
2	4	0	ACCTTCATTT	1963	2.0	0.0	0.0
2	2	2	ACGAAACTGT	1964	1.0	1.0	1.0
2	1	3	ACGAAAGAAA	1965	0.5	3.0	1.5
2	3	1	ACGAACATTG	1966	1.5	0.3	0.5
3	2	1	ACGACTCATT	1967	0.7	0.5	0.3
1	4	1	ACGTCTAGTT	1968	4.0	0.3	1.0
2	3	1	ACGTTATAGT	1969	1.5	0.3	0.5
2	2	2	ACTGACATTT	1970	1.0	1.0	1.0
1	5	0	ACTTTTTCAG	1971	5.0	0.0	0.0
1	3	2	AGATATATGT	1972	3.0	0.7	2.0
2	3	1	AGCATAAATA	1973	1.5	0.3	0.5
2	0	4	AGCGAGAATA	1974	0.0	#DIV/0!	2.0
4	1	1	AGGACTTGGA	1975	0.3	1.0	0.3
1	2	3	AGGATGATCG	1976	2.0	1.5	3.0
1	1	4	AGGATGATGG	1977	1.0	4.0	4.0
2	1	3	AGGATGGATC	1978	0.5	3.0	1.5
2	2	2	AGGGCTTTGG	1979	1.0	1.0	1.0
1	3	2	AGTGACTCTT	1980	3.0	0.7	2.0
1	3	2	AGTGCCAACA	1981	3.0	0.7	2.0
2	0	4	ATAATTCATC	1982	0.0	#DIV/0!	2.0
3	1	2	ATATATTTAG	1983	0.3	2.0	0.7
3	2	1	ATCAAAAAAA	1984	0.7	0.5	0.3
0	6	0	ATCATCTTCA	1985	#DIV/0!	0.0	#DIV/0!
1	3	2	ATCTAGATCC	1986	3.0	0.7	2.0

Table 5, cont.

1	5	0	ATGACCCAAA	1987	5.0	0.0	0.0
4	1	1	ATGCCCGTTC	1988	0.3	1.0	0.3
3	2	1	ATGCGTTTAA	1989	0.7	0.5	0.3
1	4	1	ATGGTAGCCA	1990	4.0	0.3	1.0
3	0	3	ATGGTGGCGT	1991	0.0	#DIV/0!	1.0
2	2	2	ATGTGTGATT	1992	1.0	1.0	1.0
0	2	4	ATTACCTTCG	1993	#DIV/0!	2.0	#DIV/0!
2	4	0	ATTCCTGCTG	1994	2.0	0.0	0.0
1	3	2	ATTCGTCCAA	1995	3.0	0.7	2.0
2	3	1	ATTTACAACG	1996	1.5	0.3	0.5
1	2	3	ATTTGTAAAC	1997	2.0	1.5	3.0
4	1	1	ATTTTTGCTG	1998	0.3	1.0	0.3
0	4	2	CAAAAAGTTG	1999	#DIV/0!	0.5	#DIV/0!
1	1	4	CAAAGATGGC	2000	1.0	4.0	4.0
3	0	3	CAACAAAGTG	2001	0.0	#DIV/0!	1.0
3	0	3	CAACAAGGTA	2002	0.0	#DIV/0!	1.0
1	1	4	CAACATCACC	2003	1.0	4.0	4.0
3	1	2	CAACTGGACC	2004	0.3	2.0	0.7
3	2	1	CAACTTGTGA	2005	0.7	0.5	0.3
5	0	1	CAAGAGAAGT	2006	0.0	#DIV/0!	0.2
1	3	2	CAATAAAAGC	2007	3.0	0.7	2.0
0	3	3	CACACGCACA	2008	#DIV/0!	1.0	#DIV/0!
3	2	1	CACTGATGGC	2009	0.7	0.5	0.3
0	6	0	CAGATATAAA	2010	#DIV/0!	0.0	#DIV/0!
3	1	2	CAGCAATTTA	2011	0.3	2.0	0.7
1	2	3	CAGGATGAGA	2012	2.0	1.5	3.0
1	1	4	CATAAAATGC	2013	1.0	4.0	4.0
4	1	1	CATACATAAA	2014	0.3	1.0	0.3

Table 5, cont.

2	2	2	CATACTCCTC	2015	1.0	1.0	1.0
3	2	1	CATACTGGCG	2016	0.7	0.5	0.3
1	4	1	CATTCAAACC	2017	4.0	0.3	1.0
2	1	3	CATTCAAGTG	2018	0.5	3.0	1.5
3	2	1	CCAAAATGCT	2019	0.7	0.5	0.3
3	2	1	CCAAATATCT	2020	0.7	0.5	0.3
3	1	2	CCAAGAGTGG	2021	0.3	2.0	0.7
1	0	5	CCACCTAATG	2022	0.0	#DIV/0!	5.0
2	3	1	CCACTGTATA	2023	1.5	0.3	0.5
2	2	2	CCAGGTCGTA	2024	1.0	1.0	1.0
2	2	2	CCAGTTACAT	2025	1.0	1.0	1.0
0	1	5	CCCATAAGAA	2026	#DIV/0!	5.0	#DIV/0!
1	3	2	CCCCCTAATG	2027	3.0	0.7	2.0
1	4	1	CCCCTATTAA	2028	4.0	0.3	1.0
3	1	2	CCCTTCCCTT	2029	0.3	2.0	0.7
0	2	4	CCGTTTAGGA	2030	#DIV/0!	2.0	#DIV/0!
1	0	5	CCTAAAGTTT	2031	0.0	#DIV/0!	5.0
1	4	1	CGAAATCGAG	2032	4.0	0.3	1.0
1	2	3	CGTCAACAAC	2033	2.0	1.5	3.0
1	3	2	CTACACAGGT	2034	3.0	0.7	2.0
1	4	1	CTATAGAACC	2035	4.0	0.3	1.0
1	1	4	CTATCCAACA	2036	1.0	4.0	4.0
2	0	4	CTCAGAAAAG	2037	0.0	#DIV/0!	2.0
4	2	0	CTGCTTTTGT	2038	0.5	0.0	0.0
5	0	1	CTTAATGCCG	2039	0.0	#DIV/0!	0.2
3	2	1	CTTTTATACT	2040	0.7	0.5	0.3
3	3	0	CTTTTCTGCT	2041	1.0	0.0	0.0
2	2	2	GAAAAAGGGT	2042	1.0	1.0	1.0

Table 5, cont.

5	0	1	GAAAATTAAC	2043	0.0	#DIV/0!	0.2
1	2	3	GAAACAAAGG	2044	2.0	1.5	3.0
2	0	4	GAAACGGTGT	2045	0.0	#DIV/0!	2.0
1	2	3	GAAGAACGTC	2046	2.0	1.5	3.0
3	1	2	GAATAATAGA	2047	0.3	2.0	0.7
4	2	0	GAATGGAATC	2048	0.5	0.0	0.0
2	2	2	GACAAAGTTG	2049	1.0	1.0	1.0
2	3	1	GACTTTTTGG	2050	1.5	0.3	0.5
1	3	2	GATAATGACA	2051	3.0	0.7	2.0
1	3	2	GATACTACGG	2052	3.0	0.7	2.0
2	2	2	GATATGCTAT	2053	1.0	1.0	1.0
1	2	3	GATCCAGTAG	2054	2.0	1.5	3.0
2	0	4	GATCCATTTT	2055	0.0	#DIV/0!	2.0
2	1	3	GCAAAAACTA	2056	0.5	3.0	1.5
5	1	0	GCAAGATCTT	2057	0.2	0.0	0.0
2	2	2	GCAAGGTGCA	2058	1.0	1.0	1.0
4	1	1	GCAAGTTCCT	2059	0.3	1.0	0.3
1	4	1	GCAGTTCAAT	2060	4.0	0.3	1.0
4	1	1	GCCAAAATCT	2061	0.3	1.0	0.3
2	1	3	GCCCGCACTA	2062	0.5	3.0	1.5
1	1	4	GCCGGTTTTC	2063	1.0	4.0	4.0
2	1	3	GCCGTCGCGG	2064	0.5	3.0	1.5
2	2	2	GCGAACCGAT	2065	1.0	1.0	1.0
0	2	4	GCGGCAGAAT	2066	#DIV/0!	2.0	#DIV/0!
2	2	2	GCGGTGGTTT	2067	1.0	1.0	1.0
1	3	2	GCTAGAAACA	2068	3.0	0.7	2.0
3	1	2	GCTGATCAAG	2069	0.3	2.0	0.7
2	2	2	GCTTGGATGG	2070	1.0	1.0	1.0

Table 5, cont.

3	1	2	GGACAAACTG	2071	0.3	2.0	0.7
2	2	2	GGACAGAGCT	2072	1.0	1.0	1.0
3	2	1	GGACTATAAG	2073	0.7	0.5	0.3
3	1	2	GGATATGGCA	2074	0.3	2.0	0.7
0	4	2	GGCCTTGGCG	2075	#DIV/0!	0.5	#DIV/0!
4	1	1	GGCGAAAACG	2076	0.3	1.0	0.3
0	4	2	GGCTCTAGTT	2077	#DIV/0!	0.5	#DIV/0!
3	1	2	GGCTTGCTTT	2078	0.3	2.0	0.7
4	0	2	GGGAGCCTTA	2079	0.0	#DIV/0!	0.5
3	0	3	GGGCTCTTGA	2080	0.0	#DIV/0!	1.0
3	2	1	GGGGCATATA	2081	0.7	0.5	0.3
1	5	0	GGTAACACGC	2082	5.0	0.0	0.0
0	0	6	GGTGTAACGA	2083	#DIV/0!	#DIV/0!	#DIV/0!
3	2	1	GTAATTTTTG	2084	0.7	0.5	0.3
2	1	3	GTACAAAGAG	2085	0.5	3.0	1.5
3	3	0	GTAGCGCCTG	2086	1.0	0.0	0.0
2	2	2	GTATTCCTGA	2087	1.0	1.0	1.0
0	6	0	GTCATATAGT	2088	#DIV/0!	0.0	#DIV/0!
2	1	3	GTCCCACATA	2089	0.5	3.0	1.5
2	1	3	GTCTGGCGGC	2090	0.5	3.0	1.5
2	3	1	GTGACTTTGC	2091	1.5	0.3	0.5
5	0	1	GTGGAGCTGT	2092	0.0	#DIV/0!	0.2
2	1	3	GTGGGAAAGG	2093	0.5	3.0	1.5
3	1	2	GTGGTGCTTT	2094	0.3	2.0	0.7
1	1	4	GTGTCATTTA	2095	1.0	4.0	4.0
3	0	3	GTGTGACGAT	2096	0.0	#DIV/0!	1.0
2	4	0	GTTATTCACT	2097	2.0	0.0	0.0
3	1	2	GTTGAAGCAG	2098	0.3	2.0	0.7

Table 5, cont.

4	2	0	GTTTGATTAT	2099	0.5	0.0	0.0
3	2	1	GTTTTTGTTT	2100	0.7	0.5	0.3
3	2	1	TAAACTAATA	2101	0.7	0.5	0.3
3	3	0	TAAGACTTTT	2102	1.0	0.0	0.0
2	2	2	TAATTTACTT	2103	1.0	1.0	1.0
2	2	2	TACAAATAAT	2104	1.0	1.0	1.0
3	1	2	TACCACTCCC	2105	0.3	2.0	0.7
1	1	4	TACGAGAATA	2106	1.0	4.0	4.0
1	3	2	TACTTTATAT	2107	3.0	0.7	2.0
4	1	1	TAGCGGTAAA	2108	0.3	1.0	0.3
2	2	2	TAGGCGGACA	2109	1.0	1.0	1.0
3	2	1	TATAATAACT	2110	0.7	0.5	0.3
2	3	1	TATACACACA	2111	1.5	0.3	0.5
2	3	1	TATACTAGGA	2112	1.5	0.3	0.5
2	4	0	TATAGGTCAA	2113	2.0	0.0	0.0
1	5	0	TATATATTTG	2114	5.0	0.0	0.0
0	5	1	TATATGCCTA	2115	#DIV/0!	0.2	#DIV/0!
3	3	0	TATATGTATT	2116	1.0	0.0	0.0
1	3	2	TATCCATACA	2117	3.0	0.7	2.0
2	2	2	TATCTACAAT	2118	1.0	1.0	1.0
2	3	1	TATCTAGTTT	2119	1.5	0.3	0.5
4	2	0	TATCTATCTA	2120	0.5	0.0	0.0
2	1	3	TATGAAACGT	2121	0.5	3.0	1.5
2	2	2	TATTGAATGC	2122	1.0	1.0	1.0
3	2	1	TATTGGGAAA	2123	0.7	0.5	0.3
2	2	2	TCAATTCTTG	2124	1.0	1.0	1.0
1	4	1	TCCCCGTACG	2125	4.0	0.3	1.0
3	3	0	TCCCTATTAG	2126	1.0	0.0	0.0

Table 5, cont.

1	1	4	TCCTTGTACT	2127	1.0	4.0	4.0
0	5	1	TCGACCACAC	2128	#DIV/0!	0.2	#DIV/0!
5	0	1	TCTGAATCTT	2129	0.0	#DIV/0!	0.2
3	1	2	TCTGATATCT	2130	0.3	2.0	0.7
0	2	4	TGAATGGACA	2131	#DIV/0!	2.0	#DIV/0!
3	3	0	TGAGGCTTGC	2132	1.0	0.0	0.0
1	1	4	TGATGAAGAT	2133	1.0	4.0	4.0
0	3	3	TGCGGTTTTA	2134	#DIV/0!	1.0	#DIV/0!
3	2	1	TGCTGCATAC	2135	0.7	0.5	0.3
2	1	3	TGCTTTGATT	2136	0.5	3.0	1.5
3	1	2	TGGTATCCTA	2137	0.3	2.0	0.7
1	2	3	TGGTCATCAA	2138	2.0	1.5	3.0
3	0	3	TGTATACGTG	2139	0.0	#DIV/0!	1.0
3	2	1	TGTATGACTA	2140	0.7	0.5	0.3
1	2	3	TGTGCTAAGC	2141	2.0	1.5	3.0
6	0	0	TGTTTTTATG	2142	0.0	#DIV/0!	0.0
0	4	2	TTACAATTTA	2143	#DIV/0!	0.5	#DIV/0!
2	2	2	TTACTTTGAC	2144	1.0	1.0	1.0
0	3	3	TTATGTTCTC	2145	#DIV/0!	1.0	#DIV/0!
2	4	0	TTCTATCTAA	2146	2.0	0.0	0.0
1	2	3	TTGAAAACTA	2147	2.0	1.5	3.0
1	4	1	TTGAGTTGAA	2148	4.0	0.3	1.0
5	1	0	TTGCAATAAA	2149	0.2	0.0	0.0
2	3	1	TTGGTGGTCA	2150	1.5	0.3	0.5
4	0	2	TTGTGGATGA	2151	0.0	#DIV/0!	0.5
4	2	0	TTTAATACTG	2152	0.5	0.0	0.0
2	2	2	TTTAGTTAAT	2153	1.0	1.0	1.0
3	1	2	TTTTTCTATC	2154	0.3	2.0	0.7

Table 5, cont.

0	5	0	AAAAATGAGG	2155	#DIV/0!	0.0	#DIV/0!
3	2	0	AAAACATAAA	2156	0.7	0.0	0.0
3	0	2	AAAATGAAGA	2157	0.0	#DIV/0!	0.7
3	2	0	AAAATGATCA	2158	0.7	0.0	0.0
1	2	2	AAAATGTTGG	2159	2.0	1.0	2.0
1	3	1	AAAATTCTTT	2160	3.0	0.3	1.0
2	2	1	AAACCAGCTG	2161	1.0	0.5	0.5
1	2	2	AAACCGTCCC	2162	2.0	1.0	2.0
3	1	1	AAACCTGTGA	2163	0.3	1.0	0.3
1	2	2	AAACGCGACA	2164	2.0	1.0	2.0
0	2	3	AAACTATGAT	2165	#DIV/0!	1.5	#DIV/0!
3	1	1	AAACTTTCAA	2166	0.3	1.0	0.3
2	1	2	AAAGTTTTCT	2167	0.5	2.0	1.0
1	3	1	AAATAATTAA	2168	3.0	0.3	1.0
3	2	0	AAATGGTGAT	2169	0.7	0.0	0.0
2	2	1	AAATTCCCCG	2170	1.0	0.5	0.5
1	1	3	AAATTGAGAT	2171	1.0	3.0	3.0
2	0	3	AACACAATAA	2172	0.0	#DIV/0!	1.5
1	2	2	AACAGACCAA	2173	2.0	1.0	2.0
3	2	0	AACCAGCTAA	2174	0.7	0.0	0.0
0	0	5	AACGACGAGG	2175	#DIV/0!	#DIV/0!	#DIV/0!
2	0	3	AACGAGTTAT	2176	0.0	#DIV/0!	1.5
1	2	2	AACGTCAAGC	2177	2.0	1.0	2.0
1	1	3	AACTTACTGT	2178	1.0	3.0	3.0
4	0	1	AAGAAGGCGA	2179	0.0	#DIV/0!	0.3
1	1	3	AAGAGGAGAA	2180	1.0	3.0	3.0
2	2	1	AAGAGGTCAA	2181	1.0	0.5	0.5
0	2	3	AAGCCAGGCA	2182	#DIV/0!	1.5	#DIV/0!

Table 5, cont.

0	2	3	AAGGATAAAG	2183	#DIV/0!	1.5	#DIV/0!
0	4	1	AAGGGCAAAG	2184	#DIV/0!	0.3	#DIV/0!
3	0	2	AAGTACTCTA	2185	0.0	#DIV/0!	0.7
2	3	0	AATAATAGTT	2186	1.5	0.0	0.0
4	0	1	AATACCAGCG	2187	0.0	#DIV/0!	0.3
1	3	1	AATACCATCA	2188	3.0	0.3	1.0
3	1	1	AATGGAGCGT	2189	0.3	1.0	0.3
4	0	1	AATTAATGCA	2190	0.0	#DIV/0!	0.3
2	1	2	AATTACAGAA	2191	0.5	2.0	1.0
2	0	3	ACAACAGTAT	2192	0.0	#DIV/0!	1.5
3	1	1	ACAAGATTGT	2193	0.3	1.0	0.3
2	2	1	ACAGGCCAGC	2194	1.0	0.5	0.5
2	1	2	ACAGGTGTCA	2195	0.5	2.0	1.0
3	2	0	ACATAGGCCA	2196	0.7	0.0	0.0
0	4	1	ACATCCCCTT	2197	#DIV/0!	0.3	#DIV/0!
1	3	1	ACATCTCATT	2198	3.0	0.3	1.0
1	3	1	ACCATTTAGT	2199	3.0	0.3	1.0
2	2	1	ACCCCAGTCC	2200	1.0	0.5	0.5
1	2	2	ACCTCCATTT	2201	2.0	1.0	2.0
2	2	1	ACGAGATGCG	2202	1.0	0.5	0.5
0	2	3	ACGAGCTTTG	2203	#DIV/0!	1.5	#DIV/0!
3	1	1	ACGATCTGGC	2204	0.3	1.0	0.3
2	1	2	ACTCTAAGAT	2205	0.5	2.0	1.0
1	4	0	ACTTCGTCTT	2206	4.0	0.0	0.0
4	0	1	ACTTGACAGC	2207	0.0	#DIV/0!	0.3
2	1	2	ACTTGCGGTA	2208	0.5	2.0	1.0
3	0	2	ACTTTATGGG	2209	0.0	#DIV/0!	0.7
2	0	3	AGAAAAAACA	2210	0.0	#DIV/0!	1.5

Table 5, cont.

2	1	2	AGAACATCAA	2211	0.5	2.0	1.0
1	2	2	AGAACGTGCG	2212	2.0	1.0	2.0
1	0	4	AGAAGCTGAA	2213	0.0	#DIV/0!	4.0
2	3	0	AGACAAACTA	2214	1.5	0.0	0.0
4	1	0	AGACAGACTG	2215	0.3	0.0	0.0
2	1	2	AGATTAAGAT	2216	0.5	2.0	1.0
2	1	2	AGATTCGAAG	2217	0.5	2.0	1.0
0	2	3	AGCACTATGT	2218	#DIV/0!	1.5	#DIV/0!
2	1	2	AGCAGGGGAA	2219	0.5	2.0	1.0
3	0	2	AGGAAAGAAT	2220	0.0	#DIV/0!	0.7
3	0	2	AGGAGAGAGA	2221	0.0	#DIV/0!	0.7
2	1	2	AGGCAAACTG	2222	0.5	2.0	1.0
1	1	3	AGGTCAACGG	2223	1.0	3.0	3.0
1	3	1	AGGTTGATGG	2224	3.0	0.3	1.0
3	1	1	AGTGAAAAAA	2225	0.3	1.0	0.3
1	0	4	AGTGGATGGT	2226	0.0	#DIV/0!	4.0
0	3	2	AGTTCTTCTT	2227	#DIV/0!	0.7	#DIV/0!
0	3	2	ATACCAGCCT	2228	#DIV/0!	0.7	#DIV/0!
0	2	3	ATAGCAATTG	2229	#DIV/0!	1.5	#DIV/0!
0	2	3	ATCACACAGT	2230	#DIV/0!	1.5	#DIV/0!
2	1	2	ATCATTTGGG	2231	0.5	2.0	1.0
0	5	0	ATCGCATATT	2232	#DIV/0!	0.0	#DIV/0!
2	0	3	ATCGGTACTT	2233	0.0	#DIV/0!	1.5
2	1	2	ATCTCTTACC	2234	0.5	2.0	1.0
1	3	1	ATCTTGAGCT	2235	3.0	0.3	1.0
4	1	0	ATCTTTTCAT	2236	0.3	0.0	0.0
0	5	0	ATGAGTTTAT	2237	#DIV/0!	0.0	#DIV/0!
3	0	2	ATGGAGCCAA	2238	0.0	#DIV/0!	0.7

Table 5, cont.

2	1	2	ATGGATATGC	2239	0.5	2.0	1.0
2	2	1	ATGGCACGTT	2240	1.0	0.5	0.5
3	2	0	ATTATGGCGT	2241	0.7	0.0	0.0
4	1	0	ATTATTTCTC	2242	0.3	0.0	0.0
1	4	0	ATTGAGAAGG	2243	4.0	0.0	0.0
5	0	0	ATTGCGAGAG	2244	0.0	#DIV/0!	0.0
0	1	4	ATTGTCAAGG	2245	#DIV/0!	4.0	#DIV/0!
0	0	5	ATTTACAATT	2246	#DIV/0!	#DIV/0!	#DIV/0!
1	1	3	ATTTGGACAA	2247	1.0	3.0	3.0
0	4	1	ATTTTCTGTT	2248	#DIV/0!	0.3	#DIV/0!
0	0	5	CAAACAAGAA	2249	#DIV/0!	#DIV/0!	#DIV/0!
1	2	2	CAAAGGAAGC	2250	2.0	1.0	2.0
0	0	5	CAAATCCAAA	2251	#DIV/0!	#DIV/0!	#DIV/0!
2	2	1	CAACTTTATT	2252	1.0	0.5	0.5
1	2	2	CAAGATTATG	2253	2.0	1.0	2.0
3	1	1	CAAGTGCGCA	2254	0.3	1.0	0.3
1	3	1	CAATCCAATA	2255	3.0	0.3	1.0
2	2	1	CAATCGAGGC	2256	1.0	0.5	0.5
1	3	1	CAATTCTTTA	2257	3.0	0.3	1.0
2	1	2	CAATTGGGAA	2258	0.5	2.0	1.0
2	3	0	CAATTTCTTG	2259	1.5	0.0	0.0
3	2	0	CACGCAAGTT	2260	0.7	0.0	0.0
2	2	1	CACGTTAGGG	2261	1.0	0.5	0.5
0	5	0	CACTAAAATT	2262	#DIV/0!	0.0	#DIV/0!
0	1	4	CAGAACCATC	2263	#DIV/0!	4.0	#DIV/0!
2	0	3	CAGGGTAACC	2264	0.0	#DIV/0!	1.5
3	0	2	CAGTATTTAA	2265	0.0	#DIV/0!	0.7
1	4	0	CATAAAATGT	2266	4.0	0.0	0.0

Table 5, cont.

3	1	1	CATCGTAAAA	2267	0.3	1.0	0.3
1	3	1	CCAACAATGA	2268	3.0	0.3	1.0
1	4	0	CCAATGGTTC	2269	4.0	0.0	0.0
0	3	2	CCAGAAGGAG	2270	#DIV/0!	0.7	#DIV/0!
0	3	2	CCATATCTGT	2271	#DIV/0!	0.7	#DIV/0!
4	1	0	CCATTGATGA	2272	0.3	0.0	0.0
1	1	3	CCCGGTTACT	2273	1.0	3.0	3.0
1	1	3	CCCTAAGACT	2274	1.0	3.0	3.0
3	0	2	CCGAGTGCTA	2275	0.0	#DIV/0!	0.7
0	4	1	CCGGCAACAC	2276	#DIV/0!	0.3	#DIV/0!
2	1	2	CCGGTTACTA	2277	0.5	2.0	1.0
0	5	0	CCTGAGTCGT	2278	#DIV/0!	0.0	#DIV/0!
2	1	2	CCTTACGTCT	2279	0.5	2.0	1.0
0	2	3	CCTTCGTTAC	2280	#DIV/0!	1.5	#DIV/0!
3	1	1	CCTTTAGACT	2281	0.3	1.0	0.3
4	1	0	CCTTTCAAAA	2282	0.3	0.0	0.0
1	3	1	CGAAGTGATG	2283	3.0	0.3	1.0
0	3	2	CGAGACTTGG	2284	#DIV/0!	0.7	#DIV/0!
2	2	1	CGATCACCAA	2285	1.0	0.5	0.5
1	2	2	CGATGAGAAG	2286	2.0	1.0	2.0
3	1	1	CGATGTCATT	2287	0.3	1.0	0.3
0	1	4	CGGGGAATGT	2288	#DIV/0!	4.0	#DIV/0!
3	0	2	CGTTTCCGCA	2289	0.0	#DIV/0!	0.7
2	1	2	CTAGAGGTTT	2290	0.5	2.0	1.0
1	2	2	CTCACTGACT	2291	2.0	1.0	2.0
1	1	3	CTCTTCTGTT	2292	1.0	3.0	3.0
0	4	1	CTGAACTTTA	2293	#DIV/0!	0.3	#DIV/0!
0	4	1	CTGATAGAAG	2294	#DIV/0!	0.3	#DIV/0!

Table 5, cont.

0	1	4	CTGGAAGAGA	2295	#DIV/0!	4.0	#DIV/0!
3	2	0	CTGGCATTTT	2296	0.7	0.0	0.0
1	1	3	CTGGCTCAAG	2297	1.0	3.0	3.0
2	1	2	CTGGTAAATC	2298	0.5	2.0	1.0
2	2	1	CTGTTCTGGC	2299	1.0	0.5	0.5
2	2	1	CTTGAGACGA	2300	1.0	0.5	0.5
1	4	0	CTTGATAATA	2301	4.0	0.0	0.0
2	1	2	CTTGGGCTAT	2302	0.5	2.0	1.0
1	2	2	CTTGTGGATA	2303	2.0	1.0	2.0
1	2	2	CTTTACCAAA	2304	2.0	1.0	2.0
1	2	2	CTTTCGAAAA	2305	2.0	1.0	2.0
1	4	0	CTTTTTCAAA	2306	4.0	0.0	0.0
3	2	0	GAAAAGATTT	2307	0.7	0.0	0.0
2	1	2	GAAAAGTAAA	2308	0.5	2.0	1.0
2	1	2	GAAACTGAAC	2309	0.5	2.0	1.0
2	0	3	GAAGTGATGA	2310	0.0	#DIV/0!	1.5
1	2	2	GAATCCAGTA	2311	2.0	1.0	2.0
2	1	2	GACAAGACGA	2312	0.5	2.0	1.0
0	2	3	GACATTTGGA	2313	#DIV/0!	1.5	#DIV/0!
1	3	1	GACCGCAATG	2314	3.0	0.3	1.0
0	1	4	GACGCTGTTA	2315	#DIV/0!	4.0	#DIV/0!
2	2	1	GAGAACGCAA	2316	1.0	0.5	0.5
0	4	1	GAGCTAAGAA	2317	#DIV/0!	0.3	#DIV/0!
3	2	0	GAGGCTCAAA	2318	0.7	0.0	0.0
3	0	2	GATATCTTTA	2319	0.0	#DIV/0!	0.7
2	1	2	GATCCAATCC	2320	0.5	2.0	1.0
5	0	0	GATGACGAAT	2321	0.0	#DIV/0!	0.0
1	1	3	GATGCCCTTT	2322	1.0	3.0	3.0

Table 5, cont.

0	4	1	GATTCCTAAA	2323	#DIV/0!	0.3	#DIV/0!
1	1	3	GATTCTCGAG	2324	1.0	3.0	3.0
2	2	1	GATTGAAGAA	2325	1.0	0.5	0.5
1	2	2	GATTTCTCTG	2326	2.0	1.0	2.0
4	1	0	GATTTTTGTT	2327	0.3	0.0	0.0
3	1	1	GATTTTTTAC	2328	0.3	1.0	0.3
2	3	0	GCAGATCTCG	2329	1.5	0.0	0.0
2	1	2	GCCAAGAAAC	2330	0.5	2.0	1.0
3	2	0	GCCAATGACC	2331	0.7	0.0	0.0
1	1	3	GCCACTGGTA	2332	1.0	3.0	3.0
5	0	0	GCCGTTCTTA	2333	0.0	#DIV/0!	0.0
1	3	1	GCCTCGTTTA	2334	3.0	0.3	1.0
0	3	2	GCCTTGTATA	2335	#DIV/0!	0.7	#DIV/0!
0	1	4	GCGATGTACT	2336	#DIV/0!	4.0	#DIV/0!
1	2	2	GCGCCTTGTT	2337	2.0	1.0	2.0
1	2	2	GCGGCTGCTG	2338	2.0	1.0	2.0
2	2	1	GCGTGACGAA	2339	1.0	0.5	0.5
2	1	2	GCTATGTGTA	2340	0.5	2.0	1.0
1	2	2	GCTCCTGAAG	2341	2.0	1.0	2.0
2	3	0	GCTGCGGTAT	2342	1.5	0.0	0.0
3	1	1	GCTGTGACTT	2343	0.3	1.0	0.3
1	4	0	GCTTGCGTGT	2344	4.0	0.0	0.0
2	2	1	GGAATAGACA	2345	1.0	0.5	0.5
0	3	2	GGACCTAAGT	2346	#DIV/0!	0.7	#DIV/0!
3	2	0	GGACCTGTGG	2347	0.7	0.0	0.0
3	1	1	GGAGCGGTAA	2348	0.3	1.0	0.3
0	1	4	GGAGTGGCAG	2349	#DIV/0!	4.0	#DIV/0!
1	2	2	GGATCGTCCG	2350	2.0	1.0	2.0

Table 5, cont.

1	3	1	GGATCTTACT	2351	3.0	0.3	1.0
3	1	1	GGATTTACTG	2352	0.3	1.0	0.3
2	1	2	GGATTTTGTG	2353	0.5	2.0	1.0
1	0	4	GGCAACACTT	2354	0.0	#DIV/0!	4.0
2	1	2	GGGAAACCGG	2355	0.5	2.0	1.0
0	1	4	GGGTATCCCG	2356	#DIV/0!	4.0	#DIV/0!
1	3	1	GGGTGACTAT	2357	3.0	0.3	1.0
1	3	1	GGGTGAGTAA	2358	3.0	0.3	1.0
1	3	1	GGGTGCTAAG	2359	3.0	0.3	1.0
2	1	2	GGGTTGTTCT	2360	0.5	2.0	1.0
1	1	3	GGGTTTCCTG	2361	1.0	3.0	3.0
1	1	3	GGTAAGCAGT	2362	1.0	3.0	3.0
1	2	2	GGTACATTCA	2363	2.0	1.0	2.0
5	0	0	GGTGAAAGTT	2364	0.0	#DIV/0!	0.0
1	2	2	GGTGATGAAG	2365	2.0	1.0	2.0
1	1	3	GGTGCTAGGA	2366	1.0	3.0	3.0
4	1	0	GGTGGCGAGG	2367	0.3	0.0	0.0
0	3	2	GGTGTGAAGG	2368	#DIV/0!	0.7	#DIV/0!
2	2	1	GGTGTTAACC	2369	1.0	0.5	0.5
2	2	1	GGTGTTAGCG	2370	1.0	0.5	0.5
1	2	2	GGTTAATTAA	2371	2.0	1.0	2.0
1	0	4	GTAAAAGAAG	2372	0.0	#DIV/0!	4.0
1	4	0	GTAAGAAATC	2373	4.0	0.0	0.0
2	1	2	GTACTTTCTC	2374	0.5	2.0	1.0
1	2	2	GTCAAGGGCC	2375	2.0	1.0	2.0
3	0	2	GTCCACGCAG	2376	0.0	#DIV/0!	0.7
0	2	3	GTGATGAAGT	2377	#DIV/0!	1.5	#DIV/0!
3	2	0	GTGCAACAAC	2378	0.7	0.0	0.0

Table 5, cont.

1	0	4	GTGTTAACGA	2379	0.0	#DIV/0!	4.0
1	3	1	GTTAACTGAT	2380	3.0	0.3	1.0
3	0	2	GTTGGAAGGG	2381	0.0	#DIV/0!	0.7
1	2	2	GTTTTCTTTT	2382	2.0	1.0	2.0
1	3	1	TAAATAACAA	2383	3.0	0.3	1.0
4	1	0	TAAATGTTAG	2384	0.3	0.0	0.0
2	0	3	TAAGGATGGG	2385	0.0	#DIV/0!	1.5
3	1	1	TAATGAAAAC	2386	0.3	1.0	0.3
2	0	3	TACAAATTTG	2387	0.0	#DIV/0!	1.5
1	2	2	TACCCTGCCG	2388	2.0	1.0	2.0
2	1	2	TACGTTGATG	2389	0.5	2.0	1.0
1	4	0	TAGAACAATA	2390	4.0	0.0	0.0
2	1	2	TAGCGTATTC	2391	0.5	2.0	1.0
1	3	1	TAGTAAGTAA	2392	3.0	0.3	1.0
5	0	0	TAGTTGCTCC	2393	0.0	#DIV/0!	0.0
2	3	0	TATATATATA	2394	1.5	0.0	0.0
1	4	0	TATATCAGTG	2395	4.0	0.0	0.0
1	4	0	TATATTAAAA	2396	4.0	0.0	0.0
2	2	1	TATGCCTAAA	2397	1.0	0.5	0.5
1	0	4	TATGCTAGCA	2398	0.0	#DIV/0!	4.0
2	3	0	TATGGAATAA	2399	1.5	0.0	0.0
3	1	1	TATGGGCGAC	2400	0.3	1.0	0.3
2	2	1	TATTTTGATG	2401	1.0	0.5	0.5
1	2	2	TCAGAAACAC	2402	2.0	1.0	2.0
4	0	1	TCAGGTCCAT	2403	0.0	#DIV/0!	0.3
3	1	1	TCATCATTTC	2404	0.3	1.0	0.3
4	1	0	TCATCCGTGA	2405	0.3	0.0	0.0
4	1	0	TCCACCTACT	2406	0.3	0.0	0.0

Table 5, cont.

0	5	0	TCCCCATTAA	2407	#DIV/0!	0.0	#DIV/0!
4	1	0	TCCCCGTATT	2408	0.3	0.0	0.0
1	3	1	TCCCTATCAA	2409	3.0	0.3	1.0
2	3	0	TCCCTATTGA	2410	1.5	0.0	0.0
2	3	0	TCCCTGTTAA	2411	1.5	0.0	0.0
1	3	1	TCCTAGTTCG	2412	3.0	0.3	1.0
0	3	2	TCGTCATCGG	2413	#DIV/0!	0.7	#DIV/0!
0	3	2	TCTCAATAAC	2414	#DIV/0!	0.7	#DIV/0!
2	1	2	TCTCTAGCTA	2415	0.5	2.0	1.0
2	2	1	TCTGGATTGC	2416	1.0	0.5	0.5
1	2	2	TCTTGAAAAG	2417	2.0	1.0	2.0
0	4	1	TCTTGGTATA	2418	#DIV/0!	0.3	#DIV/0!
2	1	2	TGAGTAAATC	2419	0.5	2.0	1.0
2	1	2	TGCACAATTG	2420	0.5	2.0	1.0
2	1	2	TGCAGCCTGC	2421	0.5	2.0	1.0
3	1	1	TGCCTCAGGA	2422	0.3	1.0	0.3
2	3	0	TGCTGAACTT	2423	1.5	0.0	0.0
0	3	2	TGGCAAAAAA	2424	#DIV/0!	0.7	#DIV/0!
0	3	2	TGGCAATATG	2425	#DIV/0!	0.7	#DIV/0!
2	0	3	TGGCGGAAGC	2426	0.0	#DIV/0!	1.5
3	1	1	TGGCGTGACA	2427	0.3	1.0	0.3
2	0	3	TGGCTTAAAC	2428	0.0	#DIV/0!	1.5
2	1	2	TGGGATGTAG	2429	0.5	2.0	1.0
1	2	2	TGGGTTCCAA	2430	2.0	1.0	2.0
1	0	4	TGTAAGACGG	2431	0.0	#DIV/0!	4.0
1	3	1	TGTAGTTTCT	2432	3.0	0.3	1.0
2	2	1	TGTTGTGGAG	2433	1.0	0.5	0.5
0	4	1	TTACCGAAGG	2434	#DIV/0!	0.3	#DIV/0!

Table 5, cont.

5	0	0	TTACTTGTAA	2435	0.0	#DIV/0!	0.0
1	1	3	TTAGCATAGT	2436	1.0	3.0	3.0
2	1	2	TTAGTAGCGA	2437	0.5	2.0	1.0
2	1	2	TTAGTTCTAT	2438	0.5	2.0	1.0
2	3	0	TTATGTATTG	2439	1.5	0.0	0.0
4	1	0	TTCAAATTAA	2440	0.3	0.0	0.0
3	2	0	TTCAAGTACG	2441	0.7	0.0	0.0
0	3	2	TTCCAAACTA	2442	#DIV/0!	0.7	#DIV/0!
0	3	2	TTCCTGCCTC	2443	#DIV/0!	0.7	#DIV/0!
2	1	2	TTCGTTCACC	2444	0.5	2.0	1.0
1	4	0	TTGATCTATC	2445	4.0	0.0	0.0
1	2	2	TTGCAACCAA	2446	2.0	1.0	2.0
1	1	3	TTGCTAAAGA	2447	1.0	3.0	3.0
2	1	2	TTGGATTTGT	2448	0.5	2.0	1.0
0	3	2	TTGGGTAAAA	2449	#DIV/0!	0.7	#DIV/0!
2	3	0	TTTAATAGAG	2450	1.5	0.0	0.0
4	0	1	TTTAATTACC	2451	0.0	#DIV/0!	0.3
3	2	0	TTTCCATCAA	2452	0.7	0.0	0.0
1	1	3	TTTCTAATCC	2453	1.0	3.0	3.0
1	2	2	TTTGGATTCC	2454	2.0	1.0	2.0
4	0	1	TTTTACGTAT	2455	0.0	#DIV/0!	0.3
2	1	2	TTTTAGTGAA	2456	0.5	2.0	1.0
2	2	1	TTTTATATAT	2457	1.0	0.5	0.5
2	2	1	TTTTGTATCC	2458	1.0	0.5	0.5
1	4	0	TTTTTCGATT	2459	4.0	0.0	0.0
3	1	0	AAAAACTTCT	2460	0.3	0.0	0.0
2	2	0	AAAAATAAAG	2461	1.0	0.0	0.0
1	3	0	AAAAATCCAG	2462	3.0	0.0	0.0

Table 5, cont.

2	1	1	AAAAATTTTG	2463	0.5	1.0	0.5
1	1	2	AAAAGAAGCT	2464	1.0	2.0	2.0
2	1	1	AAAAGACCGT	2465	0.5	1.0	0.5
1	1	2	AAAAGGTTGT	2466	1.0	2.0	2.0
2	1	1	AAAAGTTTGG	2467	0.5	1.0	0.5
0	3	1	AAAATAGCGA	2468	#DIV/0!	0.3	#DIV/0!
4	0	0	AAAATATGGT	2469	0.0	#DIV/0!	0.0
2	1	1	AAACTTTGTT	2470	0.5	1.0	0.5
2	2	0	AAAGAAATTT	2471	1.0	0.0	0.0
2	0	2	AAAGAATTTT	2472	0.0	#DIV/0!	1.0
1	1	2	AAAGACCCAT	2473	1.0	2.0	2.0
1	1	2	AAAGGTTAAG	2474	1.0	2.0	2.0
1	1	2	AAAGTTCAAG	2475	1.0	2.0	2.0
1	2	1	AAATAGGAAT	2476	2.0	0.5	1.0
2	2	0	AAATCACAGG	2477	1.0	0.0	0.0
1	1	2	AAATTATCAC	2478	1.0	2.0	2.0
3	0	1	AAATTGAAAC	2479	0.0	#DIV/0!	0.3
2	1	1	AAATTGAAGA	2480	0.5	1.0	0.5
1	0	3	AACAAGATTG	2481	0.0	#DIV/0!	3.0
0	2	2	AACATAGCCC	2482	#DIV/0!	1.0	#DIV/0!
1	1	2	AACATTTACA	2483	1.0	2.0	2.0
3	1	0	AACCAAAAAA	2484	0.3	0.0	0.0
2	1	1	AACGCTTCGA	2485	0.5	1.0	0.5
1	0	3	AACGGGAAAT	2486	0.0	#DIV/0!	3.0
3	1	0	AACTACTTGA	2487	0.3	0.0	0.0
1	1	2	AACTCTGCCT	2488	1.0	2.0	2.0
1	2	1	AACTGTACTA	2489	2.0	0.5	1.0
2	0	2	AAGAAGGTTT	2490	0.0	#DIV/0!	1.0

Table 5, cont.

0	1	3	AAGAGCTTTT	2491	#DIV/0!	3.0	#DIV/0!
0	0	4	AAGATAGCAA	2492	#DIV/0!	#DIV/0!	#DIV/0!
3	0	1	AAGATTCCAT	2493	0.0	#DIV/0!	0.3
3	0	1	AAGCCAGCCG	2494	0.0	#DIV/0!	0.3
2	0	2	AAGGCAGAAA	2495	0.0	#DIV/0!	1.0
0	3	1	AAGGCTATCA	2496	#DIV/0!	0.3	#DIV/0!
2	2	0	AAGTACTGAA	2497	1.0	0.0	0.0
1	1	2	AAGTTAGGAA	2498	1.0	2.0	2.0
1	2	1	AAGTTCATAA	2499	2.0	0.5	1.0
2	2	0	AAGTTGTTAA	2500	1.0	0.0	0.0
2	2	0	AAGTTTTTAG	2501	1.0	0.0	0.0
1	2	1	AATACTTTAA	2502	2.0	0.5	1.0
2	1	1	AATCTATGGG	2503	0.5	1.0	0.5
0	3	1	AATCTTATAA	2504	#DIV/0!	0.3	#DIV/0!
1	3	0	AATTATACAG	2505	3.0	0.0	0.0
3	1	0	AATTCACATT	2506	0.3	0.0	0.0
0	0	4	AATTGCCACC	2507	#DIV/0!	#DIV/0!	#DIV/0!
0	4	0	AATTTCTCCA	2508	#DIV/0!	0.0	#DIV/0!
1	1	2	AATTTTGTAC	2509	1.0	2.0	2.0
3	0	1	AATTTTTGAT	2510	0.0	#DIV/0!	0.3
2	2	0	ACAAAAAAAA	2511	1.0	0.0	0.0
0	2	2	ACAACAACTA	2512	#DIV/0!	1.0	#DIV/0!
1	3	0	ACAATTTCAT	2513	3.0	0.0	0.0
0	3	1	ACACCAAGAG	2514	#DIV/0!	0.3	#DIV/0!
1	3	0	ACAGCGGAGG	2515	3.0	0.0	0.0
0	2	2	ACCACTGGTG	2516	#DIV/0!	1.0	#DIV/0!
1	1	2	ACCAGGGTCC	2517	1.0	2.0	2.0
2	1	1	ACCCCTGTCT	2518	0.5	1.0	0.5

Table 5, cont.

0	3	1	ACCTTACCGT	2519	#DIV/0!	0.3	#DIV/0!
1	2	1	ACGAGAGGAG	2520	2.0	0.5	1.0
4	0	0	ACGCTCCCAA	2521	0.0	#DIV/0!	0.0
0	2	2	ACGGAGATGA	2522	#DIV/0!	1.0	#DIV/0!
0	4	0	ACGTTCAGCA	2523	#DIV/0!	0.0	#DIV/0!
0	3	1	ACGTTTTTTA	2524	#DIV/0!	0.3	#DIV/0!
0	0	4	ACTAAGCCAG	2525	#DIV/0!	#DIV/0!	#DIV/0!
0	4	0	ACTCACTTAC	2526	#DIV/0!	0.0	#DIV/0!
1	3	0	ACTGATGCTT	2527	3.0	0.0	0.0
2	0	2	ACTTCGATGA	2528	0.0	#DIV/0!	1.0
2	2	0	AGAAACAGGA	2529	1.0	0.0	0.0
0	3	1	AGAAATGGGT	2530	#DIV/0!	0.3	#DIV/0!
1	0	3	AGAACAAAAG	2531	0.0	#DIV/0!	3.0
3	0	1	AGAACAGCAA	2532	0.0	#DIV/0!	0.3
2	1	1	AGACACGAAA	2533	0.5	1.0	0.5
1	2	1	AGACTCATCC	2534	2.0	0.5	1.0
0	0	4	AGAGACATTC	2535	#DIV/0!	#DIV/0!	#DIV/0!
1	3	0	AGAGAGGCCC	2536	3.0	0.0	0.0
1	1	2	AGAGGAAGTA	2537	1.0	2.0	2.0
3	1	0	AGATGGGCGA	2538	0.3	0.0	0.0
2	0	2	AGCATCGGTG	2539	0.0	#DIV/0!	1.0
2	0	2	AGCCGAGATA	2540	0.0	#DIV/0!	1.0
1	1	2	AGGAAAAGAA	2541	1.0	2.0	2.0
0	3	1	AGGACAAGGA	2542	#DIV/0!	0.3	#DIV/0!
0	3	1	AGGTCAGACA	2543	#DIV/0!	0.3	#DIV/0!
0	1	3	AGGTGACAAT	2544	#DIV/0!	3.0	#DIV/0!
1	2	1	AGGTTTATCT	2545	2.0	0.5	1.0
2	1	1	AGTATCATAC	2546	0.5	1.0	0.5

Table 5, cont.

0	3	1	AGTCCATCAA	2547	#DIV/0!	0.3	#DIV/0!
3	1	0	AGTCCGGAGT	2548	0.3	0.0	0.0
2	2	0	AGTCGTCGCA	2549	1.0	0.0	0.0
1	3	0	ATAAACGTTT	2550	3.0	0.0	0.0
2	2	0	ATAATCATTC	2551	1.0	0.0	0.0
1	1	2	ATAGCCGAGT	2552	1.0	2.0	2.0
3	0	1	ATAGGATATA	2553	0.0	#DIV/0!	0.3
2	2	0	ATATAAATTT	2554	1.0	0.0	0.0
2	2	0	ATATAGCTAC	2555	1.0	0.0	0.0
0	0	4	ATATAGCTGC	2556	#DIV/0!	#DIV/0!	#DIV/0!
3	1	0	ATATTTTATT	2557	0.3	0.0	0.0
3	1	0	ATATTTTCGT	2558	0.3	0.0	0.0
1	1	2	ATCCACTTGC	2559	1.0	2.0	2.0
1	2	1	ATCCTATTTT	2560	2.0	0.5	1.0
1	0	3	ATCGCTGGTA	2561	0.0	#DIV/0!	3.0
2	1	1	ATCGTCCACC	2562	0.5	1.0	0.5
2	0	2	ATGAAAAATC	2563	0.0	#DIV/0!	1.0
3	0	1	ATGAATCCGT	2564	0.0	#DIV/0!	0.3
1	3	0	ATGACATTCA	2565	3.0	0.0	0.0
1	1	2	ATGGATATAT	2566	1.0	2.0	2.0
2	2	0	ATGGATGGAT	2567	1.0	0.0	0.0
0	0	4	ATGGGCTTCA	2568	#DIV/0!	#DIV/0!	#DIV/0!
1	2	1	ATGGTGTGGC	2569	2.0	0.5	1.0
3	1	0	ATTAAAAAAA	2570	0.3	0.0	0.0
0	4	0	ATTCGCAGAT	2571	#DIV/0!	0.0	#DIV/0!
1	0	3	ATTCTTCAGA	2572	0.0	#DIV/0!	3.0
1	2	1	ATTGATGCTT	2573	2.0	0.5	1.0
1	3	0	ATTGGCAGAT	2574	3.0	0.0	0.0

Table 5, cont.

4	0	0	ATTTGATTTC	2575	0.0	#DIV/0!	0.0
1	2	1	ATTTTTGAGC	2576	2.0	0.5	1.0
0	2	2	CAAAACCCAC	2577	#DIV/0!	1.0	#DIV/0!
2	0	2	CAAAATTAAC	2578	0.0	#DIV/0!	1.0
0	2	2	CAAGCATCCA	2579	#DIV/0!	1.0	#DIV/0!
1	1	2	CAATGGCTGA	2580	1.0	2.0	2.0
0	2	2	CAATTCCGAG	2581	#DIV/0!	1.0	#DIV/0!
1	2	1	CACAAGAAAA	2582	2.0	0.5	1.0
1	3	0	CACATATAGC	2583	3.0	0.0	0.0
0	2	2	CACATCATAA	2584	#DIV/0!	1.0	#DIV/0!
1	3	0	CACTGTATAA	2585	3.0	0.0	0.0
1	0	3	CAGAAATGCG	2586	0.0	#DIV/0!	3.0
1	1	2	CAGAAGGTCA	2587	1.0	2.0	2.0
1	1	2	CAGACAAAGT	2588	1.0	2.0	2.0
1	3	0	CAGCTCAAGC	2589	3.0	0.0	0.0
0	3	1	CAGGATACCA	2590	#DIV/0!	0.3	#DIV/0!
0	4	0	CAGTAATGTT	2591	#DIV/0!	0.0	#DIV/0!
3	1	0	CAGTGATGCA	2592	0.3	0.0	0.0
3	1	0	CATAATAATT	2593	0.3	0.0	0.0
3	1	0	CATATAAAAA	2594	0.3	0.0	0.0
1	1	2	CATCTTACCC	2595	1.0	2.0	2.0
2	1	1	CATTTGAAGC	2596	0.5	1.0	0.5
1	3	0	CCAAAAAAAA	2597	3.0	0.0	0.0
0	1	3	CCAATGATGA	2598	#DIV/0!	3.0	#DIV/0!
2	0	2	CCACAACTGA	2599	0.0	#DIV/0!	1.0
0	2	2	CCACTACCGT	2600	#DIV/0!	1.0	#DIV/0!
0	4	0	CCACTTTGGT	2601	#DIV/0!	0.0	#DIV/0!
2	2	0	CCAGAAGATG	2602	1.0	0.0	0.0

Table 5, cont.

1	3	0	CCATACTGGA	2603	3.0	0.0	0.0
2	1	1	CCATCTTAAG	2604	0.5	1.0	0.5
1	1	2	CCCAAGATAA	2605	1.0	2.0	2.0
2	1	1	CCCCAAAAAA	2606	0.5	1.0	0.5
1	3	0	CCCTTCTGTA	2607	3.0	0.0	0.0
1	2	1	CCGTCGAGAG	2608	2.0	0.5	1.0
2	1	1	CCTAAATACT	2609	0.5	1.0	0.5
0	3	1	CCTATTTGAG	2610	#DIV/0!	0.3	#DIV/0!
1	2	1	CCTCTTCTCC	2611	2.0	0.5	1.0
0	4	0	CCTGAAGAAA	2612	#DIV/0!	0.0	#DIV/0!
1	1	2	CCTGCAATGG	2613	1.0	2.0	2.0
1	2	1	CCTTCACTGC	2614	2.0	0.5	1.0
1	1	2	CCTTGAACTA	2615	1.0	2.0	2.0
0	1	3	CCTTTTCAAT	2616	#DIV/0!	3.0	#DIV/0!
0	3	1	CGAAAAGGCT	2617	#DIV/0!	0.3	#DIV/0!
2	1	1	CGAAACTAAA	2618	0.5	1.0	0.5
1	3	0	CGATTCAGTT	2619	3.0	0.0	0.0
1	0	3	CGCAACTGGT	2620	0.0	#DIV/0!	3.0
1	1	2	CGCCACGGTA	2621	1.0	2.0	2.0
3	1	0	CGCGGCAATT	2622	0.3	0.0	0.0
0	1	3	CGCGTTCGAA	2623	#DIV/0!	3.0	#DIV/0!
1	1	2	CGGCGGTTCT	2624	1.0	2.0	2.0
0	2	2	CGGCGTAGAT	2625	#DIV/0!	1.0	#DIV/0!
1	1	2	CGGCTGAGGA	2626	1.0	2.0	2.0
1	1	2	CGGTACCAAA	2627	1.0	2.0	2.0
0	2	2	CGTGCAGCTC	2628	#DIV/0!	1.0	#DIV/0!
1	1	2	CGTGTATTTT	2629	1.0	2.0	2.0
0	0	4	CGTTCTACTA	2630	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

2	0	2	CTAAAGAATG	2631	0.0	#DIV/0!	1.0
1	1	2	CTAGCAGCTA	2632	1.0	2.0	2.0
1	2	1	CTAGGTCCTA	2633	2.0	0.5	1.0
3	1	0	CTAGTTTCTA	2634	0.3	0.0	0.0
2	0	2	CTCACACAAT	2635	0.0	#DIV/0!	1.0
0	4	0	CTCATTGAAA	2636	#DIV/0!	0.0	#DIV/0!
3	1	0	CTCTACTGCC	2637	0.3	0.0	0.0
1	2	1	CTCTATTTGC	2638	2.0	0.5	1.0
1	0	3	CTCTGCCCCC	2639	0.0	#DIV/0!	3.0
1	1	2	CTGAAAAAGT	2640	1.0	2.0	2.0
0	2	2	CTGAAGCAGA	2641	#DIV/0!	1.0	#DIV/0!
2	2	0	CTGAGTACAA	2642	1.0	0.0	0.0
2	2	0	CTGCCAGTCT	2643	1.0	0.0	0.0
2	2	0	CTTACTGCAA	2644	1.0	0.0	0.0
2	0	2	CTTAGCGCCG	2645	0.0	#DIV/0!	1.0
1	3	0	CTTCTTTTGA	2646	3.0	0.0	0.0
1	2	1	CTTGTATGTG	2647	2.0	0.5	1.0
2	2	0	CTTTATTTTT	2648	1.0	0.0	0.0
1	3	0	CTTTGTTACA	2649	3.0	0.0	0.0
2	1	1	GAAAAATACT	2650	0.5	1.0	0.5
2	1	1	GAAAAGCACG	2651	0.5	1.0	0.5
0	1	3	GAAAAGGTCA	2652	#DIV/0!	3.0	#DIV/0!
0	2	2	GAAACCCAGG	2653	#DIV/0!	1.0	#DIV/0!
0	2	2	GAAAGAAGAC	2654	#DIV/0!	1.0	#DIV/0!
2	1	1	GAAAGCAACG	2655	0.5	1.0	0.5
1	2	1	GAAATAACTG	2656	2.0	0.5	1.0
1	2	1	GAACAGATTT	2657	2.0	0.5	1.0
0	1	3	GAACTCCACA	2658	#DIV/0!	3.0	#DIV/0!

Table 5, cont.

1	0	3	GAAGACGGTG	2659	0.0	#DIV/0!	3.0
2	2	0	GAAGCCTGTT	2660	1.0	0.0	0.0
1	2	1	GAAGGTCGTT	2661	2.0	0.5	1.0
1	2	1	GAAGTAGAAG	2662	2.0	0.5	1.0
0	1	3	GAAGTATTGA	2663	#DIV/0!	3.0	#DIV/0!
2	1	1	GAATACTTGG	2664	0.5	1.0	0.5
2	0	2	GAATGCAGCT	2665	0.0	#DIV/0!	1.0
2	0	2	GAATTGAGGG	2666	0.0	#DIV/0!	1.0
2	0	2	GAATTGGAGA	2667	0.0	#DIV/0!	1.0
2	0	2	GAATTGTTTT	2668	0.0	#DIV/0!	1.0
1	0	3	GACAAGAAGA	2669	0.0	#DIV/0!	3.0
3	1	0	GACATAGAAT	2670	0.3	0.0	0.0
2	2	0	GACGAGCACA	2671	1.0	0.0	0.0
2	0	2	GACGGTGACA	2672	0.0	#DIV/0!	1.0
0	2	2	GACTTAACCA	2673	#DIV/0!	1.0	#DIV/0!
2	0	2	GAGACAAACT	2674	0.0	#DIV/0!	1.0
3	0	1	GAGAGTAAGA	2675	0.0	#DIV/0!	0.3
0	4	0	GAGGACTTAA	2676	#DIV/0!	0.0	#DIV/0!
1	0	3	GAGGCCAACG	2677	0.0	#DIV/0!	3.0
0	0	4	GAGTTTGGCC	2678	#DIV/0!	#DIV/0!	#DIV/0!
1	2	1	GATACCCAAG	2679	2.0	0.5	1.0
2	0	2	GATCAGGGTA	2680	0.0	#DIV/0!	1.0
0	2	2	GATCCAGTTG	2681	#DIV/0!	1.0	#DIV/0!
2	1	1	GATGAATTCA	2682	0.5	1.0	0.5
3	1	0	GCAAAATGGA	2683	0.3	0.0	0.0
0	2	2	GCAAAGCCTC	2684	#DIV/0!	1.0	#DIV/0!
3	0	1	GCACCAAAGA	2685	0.0	#DIV/0!	0.3
0	1	3	GCACCGGCCG	2686	#DIV/0!	3.0	#DIV/0!

Table 5, cont.

0	2	2	GCAGATAGAA	2687	#DIV/0!	1.0	#DIV/0!
1	1	2	GCAGCACTGT	2688	1.0	2.0	2.0
3	1	0	GCAGGAGAAG	2689	0.3	0.0	0.0
0	0	4	GCATTGATGT	2690	#DIV/0!	#DIV/0!	#DIV/0!
2	1	1	GCATTTAGAT	2691	0.5	1.0	0.5
2	1	1	GCCAAGAAAT	2692	0.5	1.0	0.5
0	1	3	GCCAAGTTGG	2693	#DIV/0!	3.0	#DIV/0!
1	1	2	GCCAGGGGTA	2694	1.0	2.0	2.0
2	0	2	GCCCGATAAC	2695	0.0	#DIV/0!	1.0
2	1	1	GCCGGCAGAC	2696	0.5	1.0	0.5
2	2	0	GCGAAATCGA	2697	1.0	0.0	0.0
2	0	2	GCGAACCAAC	2698	0.0	#DIV/0!	1.0
2	0	2	GCGAAGTTAA	2699	0.0	#DIV/0!	1.0
1	2	1	GCGATGCCAC	2700	2.0	0.5	1.0
0	1	3	GCTACATCAC	2701	#DIV/0!	3.0	#DIV/0!
1	3	0	GCTATGCAAC	2702	3.0	0.0	0.0
2	0	2	GCTCAGTGGT	2703	0.0	#DIV/0!	1.0
0	1	3	GCTTGACATC	2704	#DIV/0!	3.0	#DIV/0!
2	0	2	GCTTTGAAAA	2705	0.0	#DIV/0!	1.0
3	1	0	GCTTTGAAAT	2706	0.3	0.0	0.0
1	2	1	GGAAAAAGTA	2707	2.0	0.5	1.0
1	1	2	GGACAATCAG	2708	1.0	2.0	2.0
0	1	3	GGACTCGTTA	2709	#DIV/0!	3.0	#DIV/0!
3	1	0	GGACTGTGTA	2710	0.3	0.0	0.0
2	2	0	GGAGGTCCGC	2711	1.0	0.0	0.0
2	2	0	GGAGTAGTTA	2712	1.0	0.0	0.0
1	2	1	GGATCAAGAA	2713	2.0	0.5	1.0
1	3	0	GGCAAAACAG	2714	3.0	0.0	0.0

Table 5, cont.

0	1	3	GGCAACAGCA	2715	#DIV/0!	3.0	#DIV/0!
2	1	1	GGCAAGATTG	2716	0.5	1.0	0.5
4	0	0	GGCAGGTAGC	2717	0.0	#DIV/0!	0.0
2	2	0	GGCAGTTTAC	2718	1.0	0.0	0.0
2	0	2	GGCATACAAT	2719	0.0	#DIV/0!	1.0
1	1	2	GGCGAGCGAA	2720	1.0	2.0	2.0
3	0	1	GGCGATAACG	2721	0.0	#DIV/0!	0.3
1	2	1	GGCGCTGCAA	2722	2.0	0.5	1.0
1	1	2	GGCTTCGGTT	2723	1.0	2.0	2.0
2	0	2	GGGCCTCTGA	2724	0.0	#DIV/0!	1.0
0	4	0	GGGTAGTACT	2725	#DIV/0!	0.0	#DIV/0!
2	1	1	GGGTTTCGGT	2726	0.5	1.0	0.5
1	1	2	GGGTTTTGGT	2727	1.0	2.0	2.0
0	2	2	GGTAATGCTA	2728	#DIV/0!	1.0	#DIV/0!
0	2	2	GGTATATTCA	2729	#DIV/0!	1.0	#DIV/0!
1	1	2	GGTCAGTAAA	2730	1.0	2.0	2.0
2	1	1	GGTCCGGCTT	2731	0.5	1.0	0.5
2	2	0	GGTGAAACCG	2732	1.0	0.0	0.0
1	1	2	GGTGACATAC	2733	1.0	2.0	2.0
2	1	1	GGTGCTAAGG	2734	0.5	1.0	0.5
2	0	2	GGTGCTTCCG	2735	0.0	#DIV/0!	1.0
0	1	3	GGTTAGTCGG	2736	#DIV/0!	3.0	#DIV/0!
1	0	3	GGTTTACCAA	2737	0.0	#DIV/0!	3.0
0	2	2	GTACCCTTCC	2738	#DIV/0!	1.0	#DIV/0!
2	1	1	GTACGCTGTG	2739	0.5	1.0	0.5
1	2	1	GTACTATTTT	2740	2.0	0.5	1.0
2	1	1	GTACTGGTGC	2741	0.5	1.0	0.5
1	2	1	GTAGCAGCAA	2742	2.0	0.5	1.0

Table 5, cont.

1	2	1	GTATAATAAA	2743	2.0	0.5	1.0
2	2	0	GTATTTTGAA	2744	1.0	0.0	0.0
2	1	1	GTATTTTGCG	2745	0.5	1.0	0.5
0	2	2	GTCCATAATA	2746	#DIV/0!	1.0	#DIV/0!
4	0	0	GTCCATCCTG	2747	0.0	#DIV/0!	0.0
1	2	1	GTCGTGCGGT	2748	2.0	0.5	1.0
1	2	1	GTCTACTCTT	2749	2.0	0.5	1.0
1	1	2	GTCTCCTTGT	2750	1.0	2.0	2.0
3	0	1	GTGAAGGATA	2751	0.0	#DIV/0!	0.3
0	2	2	GTGAGGAGAA	2752	#DIV/0!	1.0	#DIV/0!
1	1	2	GTGATAGTCT	2753	1.0	2.0	2.0
0	3	1	GTGCCGCTGG	2754	#DIV/0!	0.3	#DIV/0!
1	0	3	GTGGCAGCTT	2755	0.0	#DIV/0!	3.0
2	2	0	GTGGTATCAC	2756	1.0	0.0	0.0
3	0	1	GTGGTTTACT	2757	0.0	#DIV/0!	0.3
1	1	2	GTGTTGAAAT	2758	1.0	2.0	2.0
2	1	1	GTTAAATACA	2759	0.5	1.0	0.5
3	1	0	GTTATCCCAA	2760	0.3	0.0	0.0
1	2	1	GTTCAAACCG	2761	2.0	0.5	1.0
1	0	3	GTTCCACCAC	2762	0.0	#DIV/0!	3.0
2	1	1	GTTCGATATT	2763	0.5	1.0	0.5
0	2	2	GTTCTGCACC	2764	#DIV/0!	1.0	#DIV/0!
0	3	1	GTTCTTGATC	2765	#DIV/0!	0.3	#DIV/0!
0	2	2	GTTCTTGCCT	2766	#DIV/0!	1.0	#DIV/0!
0	2	2	GTTGGAGAAC	2767	#DIV/0!	1.0	#DIV/0!
3	0	1	GTTGTTCAGG	2768	0.0	#DIV/0!	0.3
4	0	0	GTTTAGGTAC	2769	0.0	#DIV/0!	0.0
2	1	1	GTTTCTAAAA	2770	0.5	1.0	0.5

Table 5, cont.

2	2	0	GTTTGACCTT	2771	1.0	0.0	0.0
1	0	3	GTTTTAGCTT	2772	0.0	#DIV/0!	3.0
2	1	1	TAAAGATCTA	2773	0.5	1.0	0.5
0	2	2	TAACCAGTCT	2774	#DIV/0!	1.0	#DIV/0!
1	2	1	TAACGGCTAG	2775	2.0	0.5	1.0
1	2	1	TAACTCGTAT	2776	2.0	0.5	1.0
3	0	1	TAAGACCAAA	2777	0.0	#DIV/0!	0.3
0	2	2	TAGAAACCAG	2778	#DIV/0!	1.0	#DIV/0!
1	2	1	TAGATTAACG	2779	2.0	0.5	1.0
1	1	2	TAGCGCAACC	2780	1.0	2.0	2.0
1	2	1	TAGGAACTAT	2781	2.0	0.5	1.0
2	2	0	TAGTTTTGTC	2782	1.0	0.0	0.0
3	0	1	TATAACTAGT	2783	0.0	#DIV/0!	0.3
0	2	2	TATAGGTCAC	2784	#DIV/0!	1.0	#DIV/0!
0	3	1	TATATTAATT	2785	#DIV/0!	0.3	#DIV/0!
2	1	1	TATATTTTTC	2786	0.5	1.0	0.5
0	4	0	TATCACCATA	2787	#DIV/0!	0.0	#DIV/0!
2	0	2	TATCTTAGAC	2788	0.0	#DIV/0!	1.0
2	2	0	TATCTTTTTG	2789	1.0	0.0	0.0
1	1	2	TATGTCGGTG	2790	1.0	2.0	2.0
2	2	0	TATGTTTGCA	2791	1.0	0.0	0.0
1	3	0	TATTAGTTGG	2792	3.0	0.0	0.0
3	1	0	TCAAAAAAAA	2793	0.3	0.0	0.0
1	3	0	TCAAATTTGT	2794	3.0	0.0	0.0
2	0	2	TCAAGAAGAT	2795	0.0	#DIV/0!	1.0
2	0	2	TCAATGAAAT	2796	0.0	#DIV/0!	1.0
1	3	0	TCATTCATAC	2797	3.0	0.0	0.0
0	2	2	TCCAAAAGTT	2798	#DIV/0!	1.0	#DIV/0!

Table 5, cont.

4	0	0	TCCATACCTG	2799	0.0	#DIV/0!	0.0
0	4	0	TCCCTAATTA	2800	#DIV/0!	0.0	#DIV/0!
2	1	1	TCCGCTTCAT	2801	0.5	1.0	0.5
2	1	1	TCGATTCTGG	2802	0.5	1.0	0.5
0	2	2	TCGCGAGACC	2803	#DIV/0!	1.0	#DIV/0!
1	1	2	TCTGCAGACA	2804	1.0	2.0	2.0
1	0	3	TCTGTCGAAA	2805	0.0	#DIV/0!	3.0
3	0	1	TCTGTTGACG	2806	0.0	#DIV/0!	0.3
0	1	3	TCTTGAGATC	2807	#DIV/0!	3.0	#DIV/0!
1	0	3	TCTTGGATGC	2808	0.0	#DIV/0!	3.0
1	1	2	TCTTTGCGAA	2809	1.0	2.0	2.0
2	0	2	TGAAAAAAAA	2810	0.0	#DIV/0!	1.0
0	3	1	TGAACATCTA	2811	#DIV/0!	0.3	#DIV/0!
1	0	3	TGAACATTGT	2812	0.0	#DIV/0!	3.0
1	3	0	TGAACCTATA	2813	3.0	0.0	0.0
0	3	1	TGCAGGTCCT	2814	#DIV/0!	0.3	#DIV/0!
2	2	0	TGCCACTCCT	2815	1.0	0.0	0.0
0	0	4	TGCGCGTATA	2816	#DIV/0!	#DIV/0!	#DIV/0!
2	1	1	TGGACTTGGA	2817	0.5	1.0	0.5
0	3	1	TGGCCAGTCT	2818	#DIV/0!	0.3	#DIV/0!
0	1	3	TGGTGCGTCT	2819	#DIV/0!	3.0	#DIV/0!
2	2	0	TGGTTCAGCG	2820	1.0	0.0	0.0
0	4	0	TGTAACTTGG	2821	#DIV/0!	0.0	#DIV/0!
2	1	1	TGTACGTTGT	2822	0.5	1.0	0.5
2	1	1	TGTGACGGAG	2823	0.5	1.0	0.5
1	0	3	TGTGATAAAA	2824	0.0	#DIV/0!	3.0
1	0	3	TGTTCAAGTG	2825	0.0	#DIV/0!	3.0
1	3	0	TGTTCTAATA	2826	3.0	0.0	0.0

Table 5, cont.

2	0	2	TTAAATCTGA	2827	0.0	#DIV/0!	1.0
2	0	2	TTAACTGTGC	2828	0.0	#DIV/0!	1.0
3	0	1	TTAAGTTCTT	2829	0.0	#DIV/0!	0.3
1	2	1	TTACCACCAA	2830	2.0	0.5	1.0
1	2	1	TTAGAATAAT	2831	2.0	0.5	1.0
2	1	1	TTAGTGAAGG	2832	0.5	1.0	0.5
2	1	1	TTATAAGGAG	2833	0.5	1.0	0.5
2	2	0	TTATACATTG	2834	1.0	0.0	0.0
2	2	0	TTATTGAGTT	2835	1.0	0.0	0.0
1	1	2	TTATTGTTTT	2836	1.0	2.0	2.0
2	1	1	TTATTTCAAG	2837	0.5	1.0	0.5
4	0	0	TTATTTGCAA	2838	0.0	#DIV/0!	0.0
0	2	2	TTCAAGTCAC	2839	#DIV/0!	1.0	#DIV/0!
1	3	0	TTCATACAGC	2840	3.0	0.0	0.0
1	0	3	TTCCCAAGTT	2841	0.0	#DIV/0!	3.0
2	1	1	TTCCGAAGGA	2842	0.5	1.0	0.5
1	3	0	TTCGATATGG	2843	3.0	0.0	0.0
0	4	0	TTCTCACAAT	2844	#DIV/0!	0.0	#DIV/0!
1	1	2	TTGATGATGA	2845	1.0	2.0	2.0
1	1	2	TTGCAATTCG	2846	1.0	2.0	2.0
2	1	1	TTGGACTACC	2847	0.5	1.0	0.5
1	2	1	TTGGGAATGG	2848	2.0	0.5	1.0
1	1	2	TTGTCAACCA	2849	1.0	2.0	2.0
1	1	2	TTTAACTCTT	2850	1.0	2.0	2.0
1	1	2	TTTCAGGCAA	2851	1.0	2.0	2.0
2	0	2	TTTCCAATCA	2852	0.0	#DIV/0!	1.0
1	0	3	TTTCTAAGCG	2853	0.0	#DIV/0!	3.0
2	1	1	TTTCTCAAAA	2854	0.5	1.0	0.5

Table 5, cont.

1	3	0	TTTCTCTTTG	2855	3.0	0.0	0.0
2	1	1	TTTGGTGGTT	2856	0.5	1.0	0.5
0	1	3	TTTGTTGGTT	2857	#DIV/0!	3.0	#DIV/0!
1	3	0	TTTTACAGTG	2858	3.0	0.0	0.0
1	3	0	TTTTACTAGC	2859	3.0	0.0	0.0
0	4	0	TTTTATTTTT	2860	#DIV/0!	0.0	#DIV/0!
0	3	1	TTTTCCACGG	2861	#DIV/0!	0.3	#DIV/0!
0	1	2	AAAAAAAGCA	2862	#DIV/0!	2.0	#DIV/0!
0	1	2	AAAACACCTG	2863	#DIV/0!	2.0	#DIV/0!
1	0	2	AAAACTTACG	2864	0.0	#DIV/0!	2.0
3	0	0	AAAACTTCAG	2865	0.0	#DIV/0!	0.0
1	2	0	AAAAGAAAAA	2866	2.0	0.0	0.0
0	2	1	AAAAGGGAAA	2867	#DIV/0!	0.5	#DIV/0!
2	1	0	AAAAGTCATT	2868	0.5	0.0	0.0
2	1	0	AAAATATTAG	2869	0.5	0.0	0.0
0	1	2	AAAATGAATG	2870	#DIV/0!	2.0	#DIV/0!
1	1	1	AAACAGCTTT	2871	1.0	1.0	1.0
2	1	0	AAACCTGACA	2872	0.5	0.0	0.0
0	1	2	AAACTGTTGT	2873	#DIV/0!	2.0	#DIV/0!
1	1	1	AAAGAAAAGA	2874	1.0	1.0	1.0
1	0	2	AAAGAACAAT	2875	0.0	#DIV/0!	2.0
2	1	0	AAAGAATGCG	2876	0.5	0.0	0.0
1	2	0	AAAGACAATG	2877	2.0	0.0	0.0
1	2	0	AAAGACACCG	2878	2.0	0.0	0.0
0	2	1	AAAGCTGATA	2879	#DIV/0!	0.5	#DIV/0!
0	2	1	AAAGGAATCT	2880	#DIV/0!	0.5	#DIV/0!
1	2	0	AAAGGCATTT	2881	2.0	0.0	0.0
2	1	0	AAAGTCCAAG	2882	0.5	0.0	0.0

Table 5, cont.

1	1	1	AAATCAAAAC	2883	1.0	1.0	1.0
0	1	2	AAATGGATTT	2884	#DIV/0!	2.0	#DIV/0!
1	2	0	AAATGGGTGC	2885	2.0	0.0	0.0
2	0	1	AAATTCAATT	2886	0.0	#DIV/0!	0.5
1	2	0	AAATTTAGTA	2887	2.0	0.0	0.0
1	0	2	AAATTTGAAG	2888	0.0	#DIV/0!	2.0
0	2	1	AAATTTTGTG	2889	#DIV/0!	0.5	#DIV/0!
1	1	1	AACAAACACC	2890	1.0	1.0	1.0
1	0	2	AACAAGCATC	2891	0.0	#DIV/0!	2.0
1	1	1	AACAGAAACA	2892	1.0	1.0	1.0
1	2	0	AACAGTATCA	2893	2.0	0.0	0.0
0	1	2	AACATCAAGG	2894	#DIV/0!	2.0	#DIV/0!
2	0	1	AACCAATCTT	2895	0.0	#DIV/0!	0.5
1	1	1	AACCACTCCT	2896	1.0	1.0	1.0
0	1	2	AACCCATTTG	2897	#DIV/0!	2.0	#DIV/0!
1	0	2	AACCGGTTAG	2898	0.0	#DIV/0!	2.0
0	2	1	AACGAAATCT	2899	#DIV/0!	0.5	#DIV/0!
2	0	1	AACGACGAAG	2900	0.0	#DIV/0!	0.5
0	1	2	AACGAGGATG	2901	#DIV/0!	2.0	#DIV/0!
2	1	0	AACGGTGGTG	2902	0.5	0.0	0.0
0	2	1	AACTACTTCT	2903	#DIV/0!	0.5	#DIV/0!
1	2	0	AACTCGCAAA	2904	2.0	0.0	0.0
2	0	1	AACTTCGTCA	2905	0.0	#DIV/0!	0.5
1	1	1	AAGAAAAAAG	2906	1.0	1.0	1.0
2	1	0	AAGAAACGGC	2907	0.5	0.0	0.0
1	2	0	AAGAACGCAT	2908	2.0	0.0	0.0
0	0	3	AAGAAGAAGC	2909	#DIV/0!	#DIV/0!	#DIV/0!
1	1	1	AAGAGAAAAT	2910	1.0	1.0	1.0

Table 5, cont.

0	3	0	AAGAGTACTT	2911	#DIV/0!	0.0	#DIV/0!
1	0	2	AAGATCAACG	2912	0.0	#DIV/0!	2.0
2	0	1	AAGATCCAGA	2913	0.0	#DIV/0!	0.5
1	1	1	AAGCTGGAGA	2914	1.0	1.0	1.0
1	0	2	AAGGATTATT	2915	0.0	#DIV/0!	2.0
3	0	0	AAGGTACTTA	2916	0.0	#DIV/0!	0.0
3	0	0	AAGTCATTAA	2917	0.0	#DIV/0!	0.0
2	1	0	AAGTCTTTGA	2918	0.5	0.0	0.0
0	1	2	AAGTTAGCAA	2919	#DIV/0!	2.0	#DIV/0!
1	0	2	AAGTTATTGT	2920	0.0	#DIV/0!	2.0
1	2	0	AATAGCCGGA	2921	2.0	0.0	0.0
1	0	2	AATATGAAGT	2922	0.0	#DIV/0!	2.0
2	1	0	AATCCGATAT	2923	0.5	0.0	0.0
1	1	1	AATCCTTGTT	2924	1.0	1.0	1.0
0	2	1	AATCGCAGCC	2925	#DIV/0!	0.5	#DIV/0!
0	0	3	AATCGCTAGA	2926	#DIV/0!	#DIV/0!	#DIV/0!
1	1	1	AATCTTGAGA	2927	1.0	1.0	1.0
1	2	0	AATGAGGACA	2928	2.0	0.0	0.0
0	1	2	AATGCCATTT	2929	#DIV/0!	2.0	#DIV/0!
2	1	0	AATGCTAAAA	2930	0.5	0.0	0.0
1	2	0	AATGCTTCAG	2931	2.0	0.0	0.0
2	1	0	AATGGTGGCT	2932	0.5	0.0	0.0
2	0	1	AATGTGACGT	2933	0.0	#DIV/0!	0.5
1	2	0	AATTAAAAGT	2934	2.0	0.0	0.0
0	2	1	AATTAACACC	2935	#DIV/0!	0.5	#DIV/0!
0	3	0	AATTCGAATG	2936	#DIV/0!	0.0	#DIV/0!
2	1	0	AATTCGCATA	2937	0.5	0.0	0.0
0	2	1	AATTGACGAA	2938	#DIV/0!	0.5	#DIV/0!

Table 5, cont.

2	1	0	AATTGGACGA	2939	0.5	0.0	0.0
0	1	2	AATTGGCAGA	2940	#DIV/0!	2.0	#DIV/0!
2	1	0	AATTTTATTT	2941	0.5	0.0	0.0
0	2	1	ACAAAAGATG	2942	#DIV/0!	0.5	#DIV/0!
1	0	2	ACAAGTCTTG	2943	0.0	#DIV/0!	2.0
0	1	2	ACAAGTTGAA	2944	#DIV/0!	2.0	#DIV/0!
1	2	0	ACAATTATTT	2945	2.0	0.0	0.0
1	1	1	ACACCAAGCC	2946	1.0	1.0	1.0
0	3	0	ACACCTCCAT	2947	#DIV/0!	0.0	#DIV/0!
2	0	1	ACACGAATGG	2948	0.0	#DIV/0!	0.5
2	1	0	ACACGTACTG	2949	0.5	0.0	0.0
0	1	2	ACACGTGAGG	2950	#DIV/0!	2.0	#DIV/0!
1	1	1	ACAGCTTTTT	2951	1.0	1.0	1.0
1	0	2	ACAGGCGTTA	2952	0.0	#DIV/0!	2.0
1	1	1	ACAGTGCTGG	2953	1.0	1.0	1.0
0	3	0	ACATACGAAA	2954	#DIV/0!	0.0	#DIV/0!
2	1	0	ACCAATAACT	2955	0.5	0.0	0.0
3	0	0	ACCCCTGGTG	2956	0.0	#DIV/0!	0.0
2	1	0	ACCCTATTAA	2957	0.5	0.0	0.0
2	1	0	ACCTATAATG	2958	0.5	0.0	0.0
0	2	1	ACCTCATTAA	2959	#DIV/0!	0.5	#DIV/0!
1	1	1	ACCTCCAAAA	2960	1.0	1.0	1.0
0	2	1	ACCTCTGGGT	2961	#DIV/0!	0.5	#DIV/0!
2	1	0	ACCTTTCCCA	2962	0.5	0.0	0.0
2	1	0	ACGAAAATCC	2963	0.5	0.0	0.0
0	3	0	ACGAAAATGG	2964	#DIV/0!	0.0	#DIV/0!
2	0	1	ACGAGTTAAA	2965	0.0	#DIV/0!	0.5
2	0	1	ACGATATTCA	2966	0.0	#DIV/0!	0.5

Table 5, cont.

0	2	1	ACGCTGTTTG	2967	#DIV/0!	0.5	#DIV/0!
0	3	0	ACGGAAAAGA	2968	#DIV/0!	0.0	#DIV/0!
0	3	0	ACTACAAGAC	2969	#DIV/0!	0.0	#DIV/0!
1	1	1	ACTATTTTAA	2970	1.0	1.0	1.0
0	3	0	ACTCCAGTAA	2971	#DIV/0!	0.0	#DIV/0!
1	2	0	ACTCCGATGG	2972	2.0	0.0	0.0
1	2	0	ACTCCTCCCA	2973	2.0	0.0	0.0
2	1	0	ACTCTAACGG	2974	0.5	0.0	0.0
1	1	1	ACTGCTATAG	2975	1.0	1.0	1.0
0	3	0	ACTGTAGAAA	2976	#DIV/0!	0.0	#DIV/0!
1	0	2	ACTGTGGTTC	2977	0.0	#DIV/0!	2.0
2	0	1	ACTTCCCAAG	2978	0.0	#DIV/0!	0.5
0	2	1	AGAAAAAAAA	2979	#DIV/0!	0.5	#DIV/0!
1	1	1	AGAAAACAGA	2980	1.0	1.0	1.0
1	1	1	AGAAACTGTA	2981	1.0	1.0	1.0
0	3	0	AGAAAGAGGG	2982	#DIV/0!	0.0	#DIV/0!
1	1	1	AGAAATCTCT	2983	1.0	1.0	1.0
1	1	1	AGAAGCAAGT	2984	1.0	1.0	1.0
3	0	0	AGAATAATGA	2985	0.0	#DIV/0!	0.0
1	0	2	AGACCAACTG	2986	0.0	#DIV/0!	2.0
2	1	0	AGACGCGGCT	2987	0.5	0.0	0.0
2	1	0	AGACTATACA	2988	0.5	0.0	0.0
1	2	0	AGAGACATCG	2989	2.0	0.0	0.0
2	1	0	AGAGAGATGT	2990	0.5	0.0	0.0
2	0	1	AGAGCGTACA	2991	0.0	#DIV/0!	0.5
2	1	0	AGAGTGCAAA	2992	0.5	0.0	0.0
0	2	1	AGAGTGTTTT	2993	#DIV/0!	0.5	#DIV/0!
0	1	2	AGATCAGTAA	2994	#DIV/0!	2.0	#DIV/0!

Table 5, cont.

0	1	2	AGATGGTTCC	2995	#DIV/0!	2.0	#DIV/0!
2	1	0	AGCAGAACCA	2996	0.5	0.0	0.0
2	1	0	AGCCGATTAT	2997	0.5	0.0	0.0
1	1	1	AGCGTAATAA	2998	1.0	1.0	1.0
2	1	0	AGCTTGTTCC	2999	0.5	0.0	0.0
0	0	3	AGGACACCAA	3000	#DIV/0!	#DIV/0!	#DIV/0!
1	2	0	AGGATGATGA	3001	2.0	0.0	0.0
0	3	0	AGGATTCTGA	3002	#DIV/0!	0.0	#DIV/0!
0	2	1	AGGCATCTTG	3003	#DIV/0!	0.5	#DIV/0!
3	0	0	AGGTAGATCT	3004	0.0	#DIV/0!	0.0
0	1	2	AGTAATTCTA	3005	#DIV/0!	2.0	#DIV/0!
1	2	0	AGTCAAAATG	3006	2.0	0.0	0.0
2	1	0	AGTCAACCTT	3007	0.5	0.0	0.0
1	0	2	AGTCCAGTTG	3008	0.0	#DIV/0!	2.0
1	1	1	AGTGAGTATA	3009	1.0	1.0	1.0
1	2	0	AGTTGCTATG	3010	2.0	0.0	0.0
1	2	0	AGTTTGTTTA	3011	2.0	0.0	0.0
0	2	1	AGTTTTACAG	3012	#DIV/0!	0.5	#DIV/0!
1	0	2	ATAAAGAACA	3013	0.0	#DIV/0!	2.0
2	1	0	ATAACGAAAA	3014	0.5	0.0	0.0
1	2	0	ATAAGACAGT	3015	2.0	0.0	0.0
1	1	1	ATAAGGATGG	3016	1.0	1.0	1.0
1	1	1	ATAAGGCGAT	3017	1.0	1.0	1.0
2	1	0	ATAATAAAAA	3018	0.5	0.0	0.0
2	0	1	ATAATATTCG	3019	0.0	#DIV/0!	0.5
2	1	0	ATAATGGAAC	3020	0.5	0.0	0.0
1	1	1	ATAATTTTTA	3021	1.0	1.0	1.0
0	2	1	ATACCAGCAG	3022	#DIV/0!	0.5	#DIV/0!

Table 5, cont.

1	1	1	ATACCAGCTT	3023	1.0	1.0	1.0
0	2	1	ATACTTTTTT	3024	#DIV/0!	0.5	#DIV/0!
0	2	1	ATAGCGTTGA	3025	#DIV/0!	0.5	#DIV/0!
1	0	2	ATAGCTGCCC	3026	0.0	#DIV/0!	2.0
2	1	0	ATAGTTCGGA	3027	0.5	0.0	0.0
0	3	0	ATATTAAAAA	3028	#DIV/0!	0.0	#DIV/0!
1	0	2	ATCATAAAAA	3029	0.0	#DIV/0!	2.0
0	2	1	ATCCAATCTC	3030	#DIV/0!	0.5	#DIV/0!
0	2	1	ATCCATCCAC	3031	#DIV/0!	0.5	#DIV/0!
1	0	2	ATCGACCGCG	3032	0.0	#DIV/0!	2.0
1	2	0	ATCGCCGCTT	3033	2.0	0.0	0.0
0	1	2	ATCGCGCTCA	3034	#DIV/0!	2.0	#DIV/0!
2	1	0	ATCTAGAACT	3035	0.5	0.0	0.0
2	1	0	ATCTAGAATC	3036	0.5	0.0	0.0
0	3	0	ATCTCATCAT	3037	#DIV/0!	0.0	#DIV/0!
2	0	1	ATCTGAAAAA	3038	0.0	#DIV/0!	0.5
0	3	0	ATCTTGGATA	3039	#DIV/0!	0.0	#DIV/0!
1	1	1	ATCTTGTTAC	3040	1.0	1.0	1.0
1	2	0	ATGAAAAAAA	3041	2.0	0.0	0.0
0	1	2	ATGAAGTTCC	3042	#DIV/0!	2.0	#DIV/0!
1	2	0	ATGAATTATA	3043	2.0	0.0	0.0
0	1	2	ATGACAGACA	3044	#DIV/0!	2.0	#DIV/0!
3	0	0	ATGACCATAA	3045	0.0	#DIV/0!	0.0
0	1	2	ATGACGGCAG	3046	#DIV/0!	2.0	#DIV/0!
0	1	2	ATGAGGGCAA	3047	#DIV/0!	2.0	#DIV/0!
1	0	2	ATGCTAGATG	3048	0.0	#DIV/0!	2.0
0	2	1	ATGGAAGCCC	3049	#DIV/0!	0.5	#DIV/0!
0	1	2	ATGGAGTTGT	3050	#DIV/0!	2.0	#DIV/0!

Table 5, cont.

0	3	0	ATGGCCATTC	3051	#DIV/0!	0.0	#DIV/0!
1	1	1	ATGGCCGTAG	3052	1.0	1.0	1.0
0	1	2	ATGGGCTCCA	3053	#DIV/0!	2.0	#DIV/0!
1	0	2	ATGTAGGCGA	3054	0.0	#DIV/0!	2.0
1	2	0	ATGTATAGTC	3055	2.0	0.0	0.0
2	1	0	ATGTTGGGGA	3056	0.5	0.0	0.0
0	2	1	ATTAAAAGTT	3057	#DIV/0!	0.5	#DIV/0!
2	0	1	ATTAAACTAG	3058	0.0	#DIV/0!	0.5
2	1	0	ATTAACGTTG	3059	0.5	0.0	0.0
1	1	1	ATTATGGGAG	3060	1.0	1.0	1.0
1	0	2	ATTCCCGGAA	3061	0.0	#DIV/0!	2.0
0	1	2	ATTCCTGACG	3062	#DIV/0!	2.0	#DIV/0!
2	1	0	ATTCGTTGGA	3063	0.5	0.0	0.0
1	1	1	ATTCTTTGCC	3064	1.0	1.0	1.0
1	1	1	ATTCTTTGGA	3065	1.0	1.0	1.0
0	1	2	ATTCTTTTCG	3066	#DIV/0!	2.0	#DIV/0!
1	2	0	ATTGAGGTGC	3067	2.0	0.0	0.0
3	0	0	ATTGCTAAGG	3068	0.0	#DIV/0!	0.0
0	3	0	ATTGGGTTCG	3069	#DIV/0!	0.0	#DIV/0!
1	0	2	ATTGGTGGTC	3070	0.0	#DIV/0!	2.0
0	3	0	ATTGTATTTA	3071	#DIV/0!	0.0	#DIV/0!
1	2	0	ATTTATTCAT	3072	2.0	0.0	0.0
1	0	2	ATTTCACCCT	3073	0.0	#DIV/0!	2.0
2	1	0	ATTTCAGAAA	3074	0.5	0.0	0.0
0	1	2	ATTTCAGTTT	3075	#DIV/0!	2.0	#DIV/0!
0	3	0	ATTTCCATAT	3076	#DIV/0!	0.0	#DIV/0!
0	0	3	ATTTCTTCCC	3077	#DIV/0!	#DIV/0!	#DIV/0!
1	0	2	ATTTGCAGAA	3078	0.0	#DIV/0!	2.0

Table 5, cont.

1	1	1	ATTTGGCCAT	3079	1.0	1.0	1.0
0	2	1	ATTTTACATA	3080	#DIV/0!	0.5	#DIV/0!
1	2	0	ATTTTATTTG	3081	2.0	0.0	0.0
2	1	0	ATTTTTAAAA	3082	0.5	0.0	0.0
1	2	0	ATTTTTGTGT	3083	2.0	0.0	0.0
0	3	0	ATTTTTTAAA	3084	#DIV/0!	0.0	#DIV/0!
1	1	1	CAAAAAATCG	3085	1.0	1.0	1.0
0	0	3	CAAAACCAAA	3086	#DIV/0!	#DIV/0!	#DIV/0!
2	0	1	CAAAACCCCA	3087	0.0	#DIV/0!	0.5
1	0	2	CAAAATTAGA	3088	0.0	#DIV/0!	2.0
1	2	0	CAAACAAACG	3089	2.0	0.0	0.0
0	0	3	CAAACCCAAC	3090	#DIV/0!	#DIV/0!	#DIV/0!
2	0	1	CAAAGAAACC	3091	0.0	#DIV/0!	0.5
2	0	1	CAACAAAGCA	3092	0.0	#DIV/0!	0.5
2	0	1	CAACACCCAA	3093	0.0	#DIV/0!	0.5
1	2	0	CAACCCCATC	3094	2.0	0.0	0.0
1	1	1	CAAGAATGCA	3095	1.0	1.0	1.0
1	0	2	CAAGACACGT	3096	0.0	#DIV/0!	2.0
2	1	0	CAAGATTGAT	3097	0.5	0.0	0.0
0	1	2	CAAGGAGCCT	3098	#DIV/0!	2.0	#DIV/0!
0	3	0	CAATTCACCT	3099	#DIV/0!	0.0	#DIV/0!
0	0	3	CAATTCCTAC	3100	#DIV/0!	#DIV/0!	#DIV/0!
3	0	0	CAATTTTCAG	3101	0.0	#DIV/0!	0.0
0	1	2	CACATTCGTT	3102	#DIV/0!	2.0	#DIV/0!
2	0	1	CACCACTCCT	3103	0.0	#DIV/0!	0.5
3	0	0	CACCTGTTTG	3104	0.0	#DIV/0!	0.0
0	2	1	CACGTACACA	3105	#DIV/0!	0.5	#DIV/0!
2	0	1	CACGTTTCTA	3106	0.0	#DIV/0!	0.5

Table 5, cont.

0	1	2	CACTTGACTT	3107	#DIV/0!	2.0	#DIV/0!
0	1	2	CAGAAATAGC	3108	#DIV/0!	2.0	#DIV/0!
1	1	1	CAGAAGTTTA	3109	1.0	1.0	1.0
2	0	1	CAGAATTTGA	3110	0.0	#DIV/0!	0.5
1	0	2	CAGATGAGTG	3111	0.0	#DIV/0!	2.0
0	1	2	CAGCCCTGAG	3112	#DIV/0!	2.0	#DIV/0!
2	0	1	CAGCTCAACA	3113	0.0	#DIV/0!	0.5
3	0	0	CAGGAATGAA	3114	0.0	#DIV/0!	0.0
1	1	1	CAGGTACCGC	3115	1.0	1.0	1.0
2	1	0	CAGGTTTTGT	3116	0.5	0.0	0.0
1	2	0	CAGTACTTTC	3117	2.0	0.0	0.0
2	1	0	CAGTCCTTGC	3118	0.5	0.0	0.0
2	1	0	CAGTGGCTCT	3119	0.5	0.0	0.0
1	1	1	CAGTTTCTAT	3120	1.0	1.0	1.0
0	3	0	CATACATACA	3121	#DIV/0!	0.0	#DIV/0!
0	3	0	CATACATATT	3122	#DIV/0!	0.0	#DIV/0!
0	2	1	CATACGTTAT	3123	#DIV/0!	0.5	#DIV/0!
2	0	1	CATACTTCAA	3124	0.0	#DIV/0!	0.5
1	1	1	CATATTTCTG	3125	1.0	1.0	1.0
1	1	1	CATTACCCCG	3126	1.0	1.0	1.0
1	0	2	CATTCAATGG	3127	0.0	#DIV/0!	2.0
1	1	1	CATTCACGAT	3128	1.0	1.0	1.0
0	3	0	CATTCCCTAT	3129	#DIV/0!	0.0	#DIV/0!
0	2	1	CATTGATCCT	3130	#DIV/0!	0.5	#DIV/0!
1	0	2	CATTGGTACT	3131	0.0	#DIV/0!	2.0
3	0	0	CATTTTTAAA	3132	0.0	#DIV/0!	0.0
1	1	1	CATTTTTTCC	3133	1.0	1.0	1.0
2	1	0	CCAAGATCAA	3134	0.5	0.0	0.0

Table 5, cont.

0	0	3	CCAAGGGTAC	3135	#DIV/0!	#DIV/0!	#DIV/0!
2	0	1	CCAATATTTA	3136	0.0	#DIV/0!	0.5
1	1	1	CCACAGTAGT	3137	1.0	1.0	1.0
1	2	0	CCACGGTTGA	3138	2.0	0.0	0.0
0	2	1	CCACTGTCAG	3139	#DIV/0!	0.5	#DIV/0!
1	2	0	CCACTTTTTG	3140	2.0	0.0	0.0
1	0	2	CCAGATATTT	3141	0.0	#DIV/0!	2.0
1	1	1	CCAGTAATCC	3142	1.0	1.0	1.0
0	2	1	CCATCAACAG	3143	#DIV/0!	0.5	#DIV/0!
2	1	0	CCATCCTTAC	3144	0.5	0.0	0.0
0	1	2	CCCAATATTT	3145	#DIV/0!	2.0	#DIV/0!
1	1	1	CCCAATTTCT	3146	1.0	1.0	1.0
2	0	1	CCCAGCTGCC	3147	0.0	#DIV/0!	0.5
0	2	1	CCCATTATCT	3148	#DIV/0!	0.5	#DIV/0!
1	0	2	CCCGTATTAT	3149	0.0	#DIV/0!	2.0
0	1	2	CCCGTCACAA	3150	#DIV/0!	2.0	#DIV/0!
1	1	1	CCGAAACAGG	3151	1.0	1.0	1.0
1	1	1	CCGACAGTAA	3152	1.0	1.0	1.0
0	1	2	CCGATGTCTA	3153	#DIV/0!	2.0	#DIV/0!
3	0	0	CCTCCAACGG	3154	0.0	#DIV/0!	0.0
1	2	0	CCTCTACTGG	3155	2.0	0.0	0.0
0	3	0	CCTGTTTTTG	3156	#DIV/0!	0.0	#DIV/0!
1	2	0	CCTTAAGGGT	3157	2.0	0.0	0.0
1	0	2	CCTTTAGAAT	3158	0.0	#DIV/0!	2.0
2	1	0	CCTTTCAAAT	3159	0.5	0.0	0.0
1	1	1	CCTTTCTGAA	3160	1.0	1.0	1.0
1	2	0	CGAAGTCAAA	3161	2.0	0.0	0.0
2	0	1	CGACTGCTAA	3162	0.0	#DIV/0!	0.5

Table 5, cont.

1	1	1	CGACTGTAAA	3163	1.0	1.0	1.0
0	3	0	CGAGTCAATT	3164	#DIV/0!	0.0	#DIV/0!
1	1	1	CGATATCCAC	3165	1.0	1.0	1.0
0	1	2	CGATCAAAGC	3166	#DIV/0!	2.0	#DIV/0!
2	1	0	CGCAAAGCGA	3167	0.5	0.0	0.0
0	3	0	CGCAAGGTCC	3168	#DIV/0!	0.0	#DIV/0!
0	2	1	CGCAGTTATA	3169	#DIV/0!	0.5	#DIV/0!
1	2	0	CGCATTATTA	3170	2.0	0.0	0.0
1	2	0	CGCCTGCTTA	3171	2.0	0.0	0.0
1	1	1	CGCCTGTTTA	3172	1.0	1.0	1.0
3	0	0	CGCTTCCAAT	3173	0.0	#DIV/0!	0.0
0	3	0	CGGAGTTCCA	3174	#DIV/0!	0.0	#DIV/0!
1	1	1	CGGCAGTGAA	3175	1.0	1.0	1.0
0	3	0	CGGCCAAGAC	3176	#DIV/0!	0.0	#DIV/0!
1	1	1	CGGCCATTAT	3177	1.0	1.0	1.0
0	1	2	CGGCCCTTTT	3178	#DIV/0!	2.0	#DIV/0!
1	0	2	CGGTAAAAAC	3179	0.0	#DIV/0!	2.0
3	0	0	CGGTAATCCC	3180	0.0	#DIV/0!	0.0
1	2	0	CGTACACGCG	3181	2.0	0.0	0.0
1	1	1	CGTATTTAAG	3182	1.0	1.0	1.0
1	2	0	CGTCTCCGGA	3183	2.0	0.0	0.0
2	0	1	CGTTGCGAAA	3184	0.0	#DIV/0!	0.5
1	2	0	CTAAAAAAAA	3185	2.0	0.0	0.0
1	0	2	CTAACTTCCG	3186	0.0	#DIV/0!	2.0
2	0	1	CTAAGAGCTG	3187	0.0	#DIV/0!	0.5
0	1	2	CTACAGAAGA	3188	#DIV/0!	2.0	#DIV/0!
1	2	0	CTACCTCTGA	3189	2.0	0.0	0.0
1	0	2	CTACTGCCAA	3190	0.0	#DIV/0!	2.0

Table 5, cont.

1	1	1	CTACTTCTGC	3191	1.0	1.0	1.0
0	1	2	CTAGTCGGCC	3192	#DIV/0!	2.0	#DIV/0!
0	3	0	CTAGTGTTGT	3193	#DIV/0!	0.0	#DIV/0!
1	2	0	CTATGTCGTA	3194	2.0	0.0	0.0
2	0	1	CTCAAGAGGG	3195	0.0	#DIV/0!	0.5
0	2	1	CTCTACAGTA	3196	#DIV/0!	0.5	#DIV/0!
2	0	1	CTCTACTGGT	3197	0.0	#DIV/0!	0.5
1	2	0	CTCTAGATAA	3198	2.0	0.0	0.0
2	1	0	CTCTATTCAA	3199	0.5	0.0	0.0
0	3	0	CTCTCCGGCG	3200	#DIV/0!	0.0	#DIV/0!
0	2	1	CTCTTCATCT	3201	#DIV/0!	0.5	#DIV/0!
1	1	1	CTGATTGCCA	3202	1.0	1.0	1.0
0	0	3	CTGCAGTGTT	3203	#DIV/0!	#DIV/0!	#DIV/0!
1	0	2	CTGCTCAAAA	3204	0.0	#DIV/0!	2.0
1	0	2	CTGGAACCTA	3205	0.0	#DIV/0!	2.0
0	3	0	CTGGTAGAAA	3206	#DIV/0!	0.0	#DIV/0!
0	1	2	CTGTGCGGGA	3207	#DIV/0!	2.0	#DIV/0!
1	2	0	CTGTTATTTT	3208	2.0	0.0	0.0
0	3	0	CTGTTGTTGT	3209	#DIV/0!	0.0	#DIV/0!
2	1	0	CTTACACTAT	3210	0.5	0.0	0.0
0	3	0	CTTACATATA	3211	#DIV/0!	0.0	#DIV/0!
2	0	1	CTTACCCCAG	3212	0.0	#DIV/0!	0.5
1	0	2	CTTACGATTA	3213	0.0	#DIV/0!	2.0
1	2	0	CTTCAAGGTT	3214	2.0	0.0	0.0
2	1	0	CTTCAGAAAA	3215	0.5	0.0	0.0
2	1	0	CTTCTGAAGA	3216	0.5	0.0	0.0
1	0	2	CTTCTTCTGC	3217	0.0	#DIV/0!	2.0
1	1	1	CTTGATGCTT	3218	1.0	1.0	1.0

Table 5, cont.

1	2	0	CTTGTAGGAA	3219	2.0	0.0	0.0
1	1	1	CTTTTTAGTT	3220	1.0	1.0	1.0
1	1	1	CTTTTTTTCC	3221	1.0	1.0	1.0
1	1	1	GAAACAACGA	3222	1.0	1.0	1.0
1	0	2	GAAACCTGCT	3223	0.0	#DIV/0!	2.0
0	3	0	GAAACTTGGA	3224	#DIV/0!	0.0	#DIV/0!
1	2	0	GAAACTTTAT	3225	2.0	0.0	0.0
1	1	1	GAAAGCTAGA	3226	1.0	1.0	1.0
2	0	1	GAAAGCTTTT	3227	0.0	#DIV/0!	0.5
0	2	1	GAAAGGAAAA	3228	#DIV/0!	0.5	#DIV/0!
1	1	1	GAAAGGGTAT	3229	1.0	1.0	1.0
2	1	0	GAAATAAAAT	3230	0.5	0.0	0.0
1	0	2	GAAATATCAC	3231	0.0	#DIV/0!	2.0
0	0	3	GAAATCCCAC	3232	#DIV/0!	#DIV/0!	#DIV/0!
0	2	1	GAAATGTCTG	3233	#DIV/0!	0.5	#DIV/0!
1	0	2	GAACGGCGAA	3234	0.0	#DIV/0!	2.0
2	1	0	GAACTGTGCG	3235	0.5	0.0	0.0
2	1	0	GAACTTATTG	3236	0.5	0.0	0.0
1	1	1	GAAGAAATGG	3237	1.0	1.0	1.0
1	0	2	GAAGAGGCGG	3238	0.0	#DIV/0!	2.0
2	0	1	GAAGATTTAC	3239	0.0	#DIV/0!	0.5
0	2	1	GAAGGAAGAA	3240	#DIV/0!	0.5	#DIV/0!
2	1	0	GAATATGAAA	3241	0.5	0.0	0.0
2	1	0	GAATCGTGGG	3242	0.5	0.0	0.0
1	0	2	GAATGTGAAA	3243	0.0	#DIV/0!	2.0
3	0	0	GAATTAAAGA	3244	0.0	#DIV/0!	0.0
3	0	0	GAATTGTACT	3245	0.0	#DIV/0!	0.0
1	1	1	GACAAGTGCG	3246	1.0	1.0	1.0

Table 5, cont.

2	1	0	GACAGATACG	3247	0.5	0.0	0.0
0	2	1	GACAGCGCTT	3248	#DIV/0!	0.5	#DIV/0!
1	0	2	GACCACTCCT	3249	0.0	#DIV/0!	2.0
1	1	1	GACCGGGAAA	3250	1.0	1.0	1.0
1	0	2	GACCTTGATT	3251	0.0	#DIV/0!	2.0
2	1	0	GACTCACTTG	3252	0.5	0.0	0.0
1	0	2	GACTGACTTA	3253	0.0	#DIV/0!	2.0
2	1	0	GACTTGTTTT	3254	0.5	0.0	0.0
3	0	0	GAGAAGAAAA	3255	0.0	#DIV/0!	0.0
1	1	1	GAGACCAATT	3256	1.0	1.0	1.0
0	0	3	GAGAGATTTT	3257	#DIV/0!	#DIV/0!	#DIV/0!
1	0	2	GAGAGTGTTG	3258	0.0	#DIV/0!	2.0
0	0	3	GAGATACTTT	3259	#DIV/0!	#DIV/0!	#DIV/0!
0	1	2	GAGATCATTT	3260	#DIV/0!	2.0	#DIV/0!
1	1	1	GAGCCCACTT	3261	1.0	1.0	1.0
2	1	0	GAGCTCTGGC	3262	0.5	0.0	0.0
0	2	1	GAGCTTGGGA	3263	#DIV/0!	0.5	#DIV/0!
1	0	2	GAGGCCCCAG	3264	0.0	#DIV/0!	2.0
1	0	2	GAGGGAATTT	3265	0.0	#DIV/0!	2.0
0	3	0	GAGGTCTAAG	3266	#DIV/0!	0.0	#DIV/0!
1	2	0	GAGGTGTTTT	3267	2.0	0.0	0.0
1	1	1	GAGTGATGAA	3268	1.0	1.0	1.0
0	2	1	GAGTGGTTCA	3269	#DIV/0!	0.5	#DIV/0!
0	2	1	GAGTTACGTA	3270	#DIV/0!	0.5	#DIV/0!
0	0	3	GATAAACTGC	3271	#DIV/0!	#DIV/0!	#DIV/0!
1	0	2	GATAACCTTC	3272	0.0	#DIV/0!	2.0
2	0	1	GATATGTACC	3273	0.0	#DIV/0!	0.5
2	1	0	GATATTACGG	3274	0.5	0.0	0.0

Table 5, cont.

0	1	2	GATCAGACGC	3275	#DIV/0!	2.0	#DIV/0!
0	2	1	GATCAGTATA	3276	#DIV/0!	0.5	#DIV/0!
0	0	3	GATCATCCGG	3277	#DIV/0!	#DIV/0!	#DIV/0!
0	1	2	GATCCATCGA	3278	#DIV/0!	2.0	#DIV/0!
1	1	1	GATGAAAATA	3279	1.0	1.0	1.0
3	0	0	GATGAAGGTG	3280	0.0	#DIV/0!	0.0
1	0	2	GATGAATTCT	3281	0.0	#DIV/0!	2.0
1	1	1	GATGATGGGT	3282	1.0	1.0	1.0
1	0	2	GATTCACCAG	3283	0.0	#DIV/0!	2.0
1	1	1	GATTCAGAAA	3284	1.0	1.0	1.0
0	2	1	GATTTATTTG	3285	#DIV/0!	0.5	#DIV/0!
0	1	2	GCAAATCCAA	3286	#DIV/0!	2.0	#DIV/0!
1	1	1	GCAACACCAC	3287	1.0	1.0	1.0
1	0	2	GCAACTTATC	3288	0.0	#DIV/0!	2.0
0	3	0	GCACACCGTG	3289	#DIV/0!	0.0	#DIV/0!
1	1	1	GCAGAAGAAC	3290	1.0	1.0	1.0
2	0	1	GCAGATGCTG	3291	0.0	#DIV/0!	0.5
0	1	2	GCAGGTTGTA	3292	#DIV/0!	2.0	#DIV/0!
1	1	1	GCATAAATCG	3293	1.0	1.0	1.0
1	2	0	GCATAGAGAA	3294	2.0	0.0	0.0
1	1	1	GCATAGATAT	3295	1.0	1.0	1.0
0	3	0	GCATTCAAAA	3296	#DIV/0!	0.0	#DIV/0!
1	0	2	GCCACCGTCC	3297	0.0	#DIV/0!	2.0
1	2	0	GCCATAAGTG	3298	2.0	0.0	0.0
2	1	0	GCCCAATACC	3299	0.5	0.0	0.0
1	2	0	GCCCATCTAC	3300	2.0	0.0	0.0
2	0	1	GCCCGTAACG	3301	0.0	#DIV/0!	0.5
0	1	2	GCCCTATTAA	3302	#DIV/0!	2.0	#DIV/0!

Table 5, cont.

0	0	3	GCCGTGCAGC	3303	#DIV/0!	#DIV/0!	#DIV/0!
1	1	1	GCCGTTCGAT	3304	1.0	1.0	1.0
0	3	0	GCCTTGAATA	3305	#DIV/0!	0.0	#DIV/0!
3	0	0	GCCTTGGTGA	3306	0.0	#DIV/0!	0.0
2	0	1	GCGAAAAAAA	3307	0.0	#DIV/0!	0.5
0	0	3	GCGAGTTTAG	3308	#DIV/0!	#DIV/0!	#DIV/0!
0	1	2	GCGCAGGGGC	3309	#DIV/0!	2.0	#DIV/0!
0	1	2	GCGTTTGAGG	3310	#DIV/0!	2.0	#DIV/0!
0	1	2	GCTAAAAGAT	3311	#DIV/0!	2.0	#DIV/0!
1	1	1	GCTATGAGTT	3312	1.0	1.0	1.0
1	1	1	GCTCATAGAA	3313	1.0	1.0	1.0
1	1	1	GCTCCAATAG	3314	1.0	1.0	1.0
1	1	1	GCTGCTAAGA	3315	1.0	1.0	1.0
1	0	2	GCTGCTCAAG	3316	0.0	#DIV/0!	2.0
1	1	1	GCTGTTAACG	3317	1.0	1.0	1.0
3	0	0	GCTTCAACGG	3318	0.0	#DIV/0!	0.0
2	0	1	GCTTGTTGCC	3319	0.0	#DIV/0!	0.5
2	0	1	GCTTTTTGGT	3320	0.0	#DIV/0!	0.5
1	1	1	GGAAAACAAG	3321	1.0	1.0	1.0
0	3	0	GGAAACATCT	3322	#DIV/0!	0.0	#DIV/0!
0	1	2	GGAAATCAAT	3323	#DIV/0!	2.0	#DIV/0!
1	2	0	GGAACATAAC	3324	2.0	0.0	0.0
0	0	3	GGAATACGAT	3325	#DIV/0!	#DIV/0!	#DIV/0!
0	1	2	GGAATAGGAC	3326	#DIV/0!	2.0	#DIV/0!
2	0	1	GGAATCTTGA	3327	0.0	#DIV/0!	0.5
2	1	0	GGAATTATGA	3328	0.5	0.0	0.0
1	0	2	GGACACTTCT	3329	0.0	#DIV/0!	2.0
1	2	0	GGACGGTCTC	3330	2.0	0.0	0.0

Table 5, cont.

2	0	1	GGAGAAGTTC	3331	0.0	#DIV/0!	0.5
2	1	0	GGAGAGGTCT	3332	0.5	0.0	0.0
0	2	1	GGATGCCAAC	3333	#DIV/0!	0.5	#DIV/0!
1	1	1	GGCAAGAAGA	3334	1.0	1.0	1.0
0	1	2	GGCAAGGTTG	3335	#DIV/0!	2.0	#DIV/0!
0	1	2	GGCAATGGCA	3336	#DIV/0!	2.0	#DIV/0!
2	1	0	GGCATTTGTC	3337	0.5	0.0	0.0
1	1	1	GGCCATACTG	3338	1.0	1.0	1.0
2	1	0	GGCCCATTAC	3339	0.5	0.0	0.0
2	1	0	GGCGTTAACG	3340	0.5	0.0	0.0
1	1	1	GGCGTTGTGT	3341	1.0	1.0	1.0
0	2	1	GGCTCTGGTT	3342	#DIV/0!	0.5	#DIV/0!
0	1	2	GGCTGCGTCG	3343	#DIV/0!	2.0	#DIV/0!
1	1	1	GGCTTCAAGA	3344	1.0	1.0	1.0
2	0	1	GGCTTTGTAC	3345	0.0	#DIV/0!	0.5
2	0	1	GGGATTTTGG	3346	0.0	#DIV/0!	0.5
0	2	1	GGGCAATTTT	3347	#DIV/0!	0.5	#DIV/0!
1	1	1	GGGCAGCTCG	3348	1.0	1.0	1.0
1	0	2	GGGTCCAGAT	3349	0.0	#DIV/0!	2.0
0	0	3	GGGTGAAAAC	3350	#DIV/0!	#DIV/0!	#DIV/0!
0	1	2	GGGTGAAAAG	3351	#DIV/0!	2.0	#DIV/0!
1	0	2	GGGTTACAGG	3352	0.0	#DIV/0!	2.0
0	1	2	GGGTTCGGTT	3353	#DIV/0!	2.0	#DIV/0!
1	2	0	GGTAAAAACG	3354	2.0	0.0	0.0
1	1	1	GGTAGGTAAG	3355	1.0	1.0	1.0
0	1	2	GGTCCAGCTC	3356	#DIV/0!	2.0	#DIV/0!
0	1	2	GGTCTCAGGT	3357	#DIV/0!	2.0	#DIV/0!
2	1	0	GGTGAAAACC	3358	0.5	0.0	0.0

Table 5, cont.

2	1	0	GGTGAAAGCG	3359	0.5	0.0	0.0
0	0	3	GGTGACCAAA	3360	#DIV/0!	#DIV/0!	#DIV/0!
0	1	2	GGTGATAAAT	3361	#DIV/0!	2.0	#DIV/0!
2	0	1	GGTGCTGTGT	3362	0.0	#DIV/0!	0.5
1	1	1	GGTGGAAACG	3363	1.0	1.0	1.0
0	1	2	GGTGGCCAGC	3364	#DIV/0!	2.0	#DIV/0!
1	1	1	GGTGGTCCAA	3365	1.0	1.0	1.0
0	1	2	GGTGTAAACG	3366	#DIV/0!	2.0	#DIV/0!
2	1	0	GGTGTTAACT	3367	0.5	0.0	0.0
1	1	1	GGTGTTAATG	3368	1.0	1.0	1.0
0	3	0	GGTGTTTTTA	3369	#DIV/0!	0.0	#DIV/0!
3	0	0	GGTTACGGTT	3370	0.0	#DIV/0!	0.0
0	1	2	GGTTCCGGTA	3371	#DIV/0!	2.0	#DIV/0!
0	0	3	GGTTCGGTTT	3372	#DIV/0!	#DIV/0!	#DIV/0!
1	1	1	GGTTGTGTTA	3373	1.0	1.0	1.0
0	0	3	GGTTTCCGGT	3374	#DIV/0!	#DIV/0!	#DIV/0!
2	1	0	GGTTTCCTGA	3375	0.5	0.0	0.0
1	1	1	GGTTTCCTTC	3376	1.0	1.0	1.0
1	2	0	GGTTTCGGTC	3377	2.0	0.0	0.0
1	2	0	GGTTTTAAAG	3378	2.0	0.0	0.0
0	1	2	GGTTTTGGCT	3379	#DIV/0!	2.0	#DIV/0!
2	0	1	GTAAAAGAAT	3380	0.0	#DIV/0!	0.5
2	1	0	GTAACGAATC	3381	0.5	0.0	0.0
0	2	1	GTAAGATTGA	3382	#DIV/0!	0.5	#DIV/0!
0	1	2	GTACAGCTAT	3383	#DIV/0!	2.0	#DIV/0!
1	1	1	GTACCTACCC	3384	1.0	1.0	1.0
0	2	1	GTACTCCAGC	3385	#DIV/0!	0.5	#DIV/0!
1	1	1	GTAGCTACAG	3386	1.0	1.0	1.0

Table 5, cont.

0	3	0	GTAGTATTAG	3387	#DIV/0!	0.0	#DIV/0!
1	2	0	GTATAGCAAA	3388	2.0	0.0	0.0
1	2	0	GTATCGAAAA	3389	2.0	0.0	0.0
0	3	0	GTATTTTTCA	3390	#DIV/0!	0.0	#DIV/0!
0	1	2	GTCAGATTCT	3391	#DIV/0!	2.0	#DIV/0!
0	2	1	GTCCATAAGC	3392	#DIV/0!	0.5	#DIV/0!
0	2	1	GTCGCCGCTC	3393	#DIV/0!	0.5	#DIV/0!
1	1	1	GTCGGACTGC	3394	1.0	1.0	1.0
1	1	1	GTCTCGCTTG	3395	1.0	1.0	1.0
2	1	0	GTCTTTCTTT	3396	0.5	0.0	0.0
2	1	0	GTCTTTTCAC	3397	0.5	0.0	0.0
1	0	2	GTGAAAAAAA	3398	0.0	#DIV/0!	2.0
2	1	0	GTGAAAGCGA	3399	0.5	0.0	0.0
1	1	1	GTGAGCAGTC	3400	1.0	1.0	1.0
1	1	1	GTGCGTGTTC	3401	1.0	1.0	1.0
0	2	1	GTGCTTCTTT	3402	#DIV/0!	0.5	#DIV/0!
0	3	0	GTGGAGATTT	3403	#DIV/0!	0.0	#DIV/0!
2	1	0	GTGGCTACTC	3404	0.5	0.0	0.0
1	2	0	GTGGCTACTT	3405	2.0	0.0	0.0
0	2	1	GTGGTATTGC	3406	#DIV/0!	0.5	#DIV/0!
2	0	1	GTGGTTTTTC	3407	0.0	#DIV/0!	0.5
2	0	1	GTGTCAGTTT	3408	0.0	#DIV/0!	0.5
0	2	1	GTGTGGTCCT	3409	#DIV/0!	0.5	#DIV/0!
1	2	0	GTTAAAAAAA	3410	2.0	0.0	0.0
0	1	2	GTTAAATTTT	3411	#DIV/0!	2.0	#DIV/0!
0	1	2	GTTATATGCT	3412	#DIV/0!	2.0	#DIV/0!
1	2	0	GTTATATTGA	3413	2.0	0.0	0.0
2	0	1	GTTCAAGAGG	3414	0.0	#DIV/0!	0.5

Table 5, cont.

2	1	0	GTTCCAAAGC	3415	0.5	0.0	0.0
1	0	2	GTTCCAACCT	3416	0.0	#DIV/0!	2.0
2	0	1	GTTCCTGGCT	3417	0.0	#DIV/0!	0.5
0	1	2	GTTCGAAAAC	3418	#DIV/0!	2.0	#DIV/0!
2	1	0	GTTGATGACA	3419	0.5	0.0	0.0
0	2	1	GTTGTTGAAA	3420	#DIV/0!	0.5	#DIV/0!
1	1	1	GTTTACAAAC	3421	1.0	1.0	1.0
2	1	0	GTTTCTATAA	3422	0.5	0.0	0.0
1	1	1	GTTTCTTGCC	3423	1.0	1.0	1.0
0	3	0	GTTTGACACC	3424	#DIV/0!	0.0	#DIV/0!
0	0	3	GTTTTCCTTT	3425	#DIV/0!	#DIV/0!	#DIV/0!
2	1	0	TAAAATACTA	3426	0.5	0.0	0.0
2	1	0	TAAACGGCCG	3427	0.5	0.0	0.0
2	0	1	TAAATAATTT	3428	0.0	#DIV/0!	0.5
0	3	0	TAAATATATA	3429	#DIV/0!	0.0	#DIV/0!
1	1	1	TAAATCTGAG	3430	1.0	1.0	1.0
0	1	2	TAAATTTAAC	3431	#DIV/0!	2.0	#DIV/0!
2	1	0	TAACCCTTAA	3432	0.5	0.0	0.0
2	1	0	TAACCTTACA	3433	0.5	0.0	0.0
2	1	0	TAACTAGCGT	3434	0.5	0.0	0.0
2	1	0	TAACTGGAAG	3435	0.5	0.0	0.0
1	2	0	TAAGTATTTG	3436	2.0	0.0	0.0
2	0	1	TAATGAATCT	3437	0.0	#DIV/0!	0.5
3	0	0	TAATTAGTTA	3438	0.0	#DIV/0!	0.0
2	0	1	TACAAGAAAA	3439	0.0	#DIV/0!	0.5
1	0	2	TACAGGTCTT	3440	0.0	#DIV/0!	2.0
1	1	1	TACATACAAA	3441	1.0	1.0	1.0
0	2	1	TACATATTTT	3442	#DIV/0!	0.5	#DIV/0!

Table 5, cont.

0	2	1	TACCACCACG	3443	#DIV/0!	0.5	#DIV/0!
1	0	2	TACCACCCTT	3444	0.0	#DIV/0!	2.0
2	0	1	TACCAGAAAA	3445	0.0	#DIV/0!	0.5
0	1	2	TACCCTCCTT	3446	#DIV/0!	2.0	#DIV/0!
1	0	2	TACCGCTCCT	3447	0.0	#DIV/0!	2.0
1	1	1	TACCTCTCAG	3448	1.0	1.0	1.0
1	0	2	TACTAAGAAA	3449	0.0	#DIV/0!	2.0
0	0	3	TACTTTAAAT	3450	#DIV/0!	#DIV/0!	#DIV/0!
0	1	2	TAGAACAAGA	3451	#DIV/0!	2.0	#DIV/0!
0	0	3	TAGAGAATGT	3452	#DIV/0!	#DIV/0!	#DIV/0!
2	0	1	TAGCAGAAAT	3453	0.0	#DIV/0!	0.5
1	0	2	TAGCCAATGC	3454	0.0	#DIV/0!	2.0
2	1	0	TAGCCACCCC	3455	0.5	0.0	0.0
1	1	1	TAGCTATCAG	3456	1.0	1.0	1.0
2	1	0	TAGGGAACTA	3457	0.5	0.0	0.0
1	1	1	TAGGGCCCTC	3458	1.0	1.0	1.0
1	1	1	TAGGTTTTTT	3459	1.0	1.0	1.0
0	2	1	TAGTCAAGCC	3460	#DIV/0!	0.5	#DIV/0!
2	1	0	TAGTTAGTTT	3461	0.5	0.0	0.0
1	2	0	TAGTTTATTT	3462	2.0	0.0	0.0
1	2	0	TATAAAGTAA	3463	2.0	0.0	0.0
2	1	0	TATAAATGTA	3464	0.5	0.0	0.0
2	1	0	TATAATGCTA	3465	0.5	0.0	0.0
2	1	0	TATATAAATA	3466	0.5	0.0	0.0
0	1	2	TATATAGAGT	3467	#DIV/0!	2.0	#DIV/0!
0	3	0	TATATATAAT	3468	#DIV/0!	0.0	#DIV/0!
1	1	1	TATATCGTAT	3469	1.0	1.0	1.0
0	2	1	TATATGTGTG	3470	#DIV/0!	0.5	#DIV/0!

Table 5, cont.

2	1	0	TATATTAAGG	3471	0.5	0.0	0.0
1	1	1	TATATTGGAC	3472	1.0	1.0	1.0
1	1	1	TATATTTTTA	3473	1.0	1.0	1.0
2	1	0	TATCTAGAGA	3474	0.5	0.0	0.0
1	2	0	TATCTTTTCA	3475	2.0	0.0	0.0
1	1	1	TATGATGTGA	3476	1.0	1.0	1.0
1	1	1	TATTACTGAC	3477	1.0	1.0	1.0
1	2	0	TATTCTGTAT	3478	2.0	0.0	0.0
2	0	1	TATTGTTTTA	3479	0.0	#DIV/0!	0.5
2	1	0	TATTTATAAT	3480	0.5	0.0	0.0
2	0	1	TATTTATTTA	3481	0.0	#DIV/0!	0.5
2	1	0	TATTTGATGA	3482	0.5	0.0	0.0
0	2	1	TATTTGGATG	3483	#DIV/0!	0.5	#DIV/0!
0	3	0	TATTTTATAT	3484	#DIV/0!	0.0	#DIV/0!
0	2	1	TATTTTCAGG	3485	#DIV/0!	0.5	#DIV/0!
3	0	0	TATTTTTATT	3486	0.0	#DIV/0!	0.0
0	2	1	TCAAAAGAAG	3487	#DIV/0!	0.5	#DIV/0!
1	1	1	TCAAACAGTT	3488	1.0	1.0	1.0
1	2	0	TCAAAGGATC	3489	2.0	0.0	0.0
1	1	1	TCAAATAGAT	3490	1.0	1.0	1.0
0	1	2	TCAAATTTTT	3491	#DIV/0!	2.0	#DIV/0!
1	1	1	TCACTATTAA	3492	1.0	1.0	1.0
1	2	0	TCATAGCTTA	3493	2.0	0.0	0.0
1	2	0	TCATATTATA	3494	2.0	0.0	0.0
0	1	2	TCATCACCAG	3495	#DIV/0!	2.0	#DIV/0!
2	0	1	TCCAACTTTG	3496	0.0	#DIV/0!	0.5
2	1	0	TCCATTATGC	3497	0.5	0.0	0.0
1	2	0	TCCATTTATC	3498	2.0	0.0	0.0

Table 5, cont.

0	3	0	TCCCCGTAAA	3499	#DIV/0!	0.0	#DIV/0!
0	3	0	TCCCCGTACC	3500	#DIV/0!	0.0	#DIV/0!
1	1	1	TCCCCTATTA	3501	1.0	1.0	1.0
3	0	0	TCCCTACTAA	3502	0.0	#DIV/0!	0.0
1	2	0	TCCCTACTGG	3503	2.0	0.0	0.0
2	1	0	TCCCTATTAT	3504	0.5	0.0	0.0
0	2	1	TCCCTTTAAG	3505	#DIV/0!	0.5	#DIV/0!
2	1	0	TCCTCAGCTA	3506	0.5	0.0	0.0
1	1	1	TCCTCCGGAG	3507	1.0	1.0	1.0
1	1	1	TCGCCACTAA	3508	1.0	1.0	1.0
1	1	1	TCGCCGAGGA	3509	1.0	1.0	1.0
1	1	1	TCGCCTCAGG	3510	1.0	1.0	1.0
0	1	2	TCGCCTGAAG	3511	#DIV/0!	2.0	#DIV/0!
0	3	0	TCGGTGTATT	3512	#DIV/0!	0.0	#DIV/0!
0	3	0	TCGTCATCAG	3513	#DIV/0!	0.0	#DIV/0!
0	0	3	TCGTCTGGTT	3514	#DIV/0!	#DIV/0!	#DIV/0!
0	2	1	TCGTTGAAGT	3515	#DIV/0!	0.5	#DIV/0!
2	0	1	TCTAGTCGAA	3516	0.0	#DIV/0!	0.5
1	1	1	TCTATAGCAA	3517	1.0	1.0	1.0
2	1	0	TCTCTACCGG	3518	0.5	0.0	0.0
2	0	1	TCTCTACTGT	3519	0.0	#DIV/0!	0.5
1	0	2	TCTGCAGAGC	3520	0.0	#DIV/0!	2.0
2	1	0	TCTTCGTTAT	3521	0.5	0.0	0.0
1	0	2	TGAATGAAAC	3522	0.0	#DIV/0!	2.0
1	1	1	TGACAAGTAT	3523	1.0	1.0	1.0
1	2	0	TGAGAGAGAT	3524	2.0	0.0	0.0
0	0	3	TGAGCACTCC	3525	#DIV/0!	#DIV/0!	#DIV/0!
2	0	1	TGAGGCAGTT	3526	0.0	#DIV/0!	0.5

Table 5, cont.

2	1	0	TGATCCAAAG	3527	0.5	0.0	0.0
0	2	1	TGATGACATT	3528	#DIV/0!	0.5	#DIV/0!
0	0	3	TGATGCCCAA	3529	#DIV/0!	#DIV/0!	#DIV/0!
2	0	1	TGATTTCATT	3530	0.0	#DIV/0!	0.5
1	2	0	TGCCCGTTGT	3531	2.0	0.0	0.0
0	2	1	TGCCGTTTCC	3532	#DIV/0!	0.5	#DIV/0!
1	0	2	TGCTAGTTTA	3533	0.0	#DIV/0!	2.0
1	2	0	TGCTATACAT	3534	2.0	0.0	0.0
1	2	0	TGCTCTTCTT	3535	2.0	0.0	0.0
1	2	0	TGGATGTGTA	3536	2.0	0.0	0.0
1	0	2	TGGATTTTTA	3537	0.0	#DIV/0!	2.0
2	0	1	TGGCCAATCC	3538	0.0	#DIV/0!	0.5
1	2	0	TGGCTACGTC	3539	2.0	0.0	0.0
0	3	0	TGGGAAATGT	3540	#DIV/0!	0.0	#DIV/0!
1	1	1	TGGGTTGAAG	3541	1.0	1.0	1.0
2	1	0	TGGTACAAGG	3542	0.5	0.0	0.0
2	0	1	TGGTGAAGCT	3543	0.0	#DIV/0!	0.5
1	0	2	TGGTGTCATT	3544	0.0	#DIV/0!	2.0
1	1	1	TGTAACAATG	3545	1.0	1.0	1.0
0	0	3	TGTAACTTAA	3546	#DIV/0!	#DIV/0!	#DIV/0!
1	1	1	TGTACAGACG	3547	1.0	1.0	1.0
1	1	1	TGTATTGTTA	3548	1.0	1.0	1.0
1	2	0	TGTCCAATTC	3549	2.0	0.0	0.0
1	1	1	TGTCTACCAA	3550	1.0	1.0	1.0
1	2	0	TGTCTGGTGT	3551	2.0	0.0	0.0
0	3	0	TGTGGTATAT	3552	#DIV/0!	0.0	#DIV/0!
1	1	1	TGTTACGTAA	3553	1.0	1.0	1.0
1	2	0	TGTTCTTCAT	3554	2.0	0.0	0.0

Table 5, cont.

2	0	1	TGTTTATAAA	3555	0.0	#DIV/0!	0.5
2	1	0	TGTTTGAAGG	3556	0.5	0.0	0.0
0	2	1	TTAACACAAA	3557	#DIV/0!	0.5	#DIV/0!
1	2	0	TTAACCTATA	3558	2.0	0.0	0.0
1	2	0	TTAAGTTTCG	3559	2.0	0.0	0.0
3	0	0	TTAATTATCT	3560	0.0	#DIV/0!	0.0
2	0	1	TTACCACTTC	3561	0.0	#DIV/0!	0.5
1	2	0	TTACTAAGGA	3562	2.0	0.0	0.0
0	2	1	TTAGAATGCA	3563	#DIV/0!	0.5	#DIV/0!
0	1	2	TTAGAGATTG	3564	#DIV/0!	2.0	#DIV/0!
1	0	2	TTAGGAAGCG	3565	0.0	#DIV/0!	2.0
2	0	1	TTAGGGCATA	3566	0.0	#DIV/0!	0.5
1	2	0	TTAGTTCCTA	3567	2.0	0.0	0.0
1	1	1	TTAGTTTCCA	3568	1.0	1.0	1.0
1	2	0	TTAGTTTCTG	3569	2.0	0.0	0.0
0	3	0	TTATATAAAA	3570	#DIV/0!	0.0	#DIV/0!
0	2	1	TTATATGGTG	3571	#DIV/0!	0.5	#DIV/0!
1	0	2	TTATTTCTAA	3572	0.0	#DIV/0!	2.0
1	1	1	TTCAAAAACA	3573	1.0	1.0	1.0
0	0	3	TTCAAAACTG	3574	#DIV/0!	#DIV/0!	#DIV/0!
1	1	1	TTCATAAGTT	3575	1.0	1.0	1.0
0	0	3	TTCCACAGGA	3576	#DIV/0!	#DIV/0!	#DIV/0!
1	1	1	TTCGTAAACT	3577	1.0	1.0	1.0
1	0	2	TTCGTCCACT	3578	0.0	#DIV/0!	2.0
0	3	0	TTCTAGATGC	3579	#DIV/0!	0.0	#DIV/0!
0	3	0	TTCTATAATT	3580	#DIV/0!	0.0	#DIV/0!
1	0	2	TTGAACTCAG	3581	0.0	#DIV/0!	2.0
1	2	0	TTGAAGAAAA	3582	2.0	0.0	0.0

Table 5, cont.

0	2	1	TTGAAGAAAT	3583	#DIV/0!	0.5	#DIV/0!
2	0	1	TTGAAGTAGT	3584	0.0	#DIV/0!	0.5
3	0	0	TTGAGGATTT	3585	0.0	#DIV/0!	0.0
1	0	2	TTGATGATTT	3586	0.0	#DIV/0!	2.0
0	3	0	TTGATTACTT	3587	#DIV/0!	0.0	#DIV/0!
2	0	1	TTGCAGTCTT	3588	0.0	#DIV/0!	0.5
1	1	1	TTGCCTGCTT	3589	1.0	1.0	1.0
2	1	0	TTGCTTCACA	3590	0.5	0.0	0.0
2	1	0	TTGGATAATT	3591	0.5	0.0	0.0
1	2	0	TTGGCCAAGA	3592	2.0	0.0	0.0
1	2	0	TTGGGAGCGG	3593	2.0	0.0	0.0
2	1	0	TTGTATAAAG	3594	0.5	0.0	0.0
2	1	0	TTGTCAAAAA	3595	0.5	0.0	0.0
1	0	2	TTGTCGCACC	3596	0.0	#DIV/0!	2.0
0	3	0	TTTATTTGAG	3597	#DIV/0!	0.0	#DIV/0!
2	0	1	TTTCAAAAAA	3598	0.0	#DIV/0!	0.5
2	0	1	TTTCCGATTT	3599	0.0	#DIV/0!	0.5
1	1	1	TTTCTGCTCC	3600	1.0	1.0	1.0
0	2	1	TTTGAAAAAT	3601	#DIV/0!	0.5	#DIV/0!
0	1	2	TTTGATTTGA	3602	#DIV/0!	2.0	#DIV/0!
2	0	1	TTTGCTCGCG	3603	0.0	#DIV/0!	0.5
1	1	1	TTTGGTAACA	3604	1.0	1.0	1.0
0	2	1	TTTTACAACC	3605	#DIV/0!	0.5	#DIV/0!
1	1	1	TTTTCACTGG	3606	1.0	1.0	1.0
2	1	0	TTTTCAGATG	3607	0.5	0.0	0.0
1	1	1	TTTTGTTTTT	3608	1.0	1.0	1.0
2	1	0	TTTTTATAAG	3609	0.5	0.0	0.0
3	0	0	TTTTTGCCAA	3610	0.0	#DIV/0!	0.0

Table 5, cont.

2	0	1	TTTTTGGAGT	3611	0.0	#DIV/0!	0.5
1	0	2	TTTTTTCCGA	3612	0.0	#DIV/0!	2.0
1	1	0	AAAAAAAAAC	3613	1.0	0.0	10.0
0	1	1	AAAAAAACTG	3614	#DIV/0!	1.0	#DIV/0!
0	1	1	AAAAAAAGGT	3615	#DIV/0!	1.0	#DIV/0!
0	1	1	AAAAAACTGC	3616	#DIV/0!	1.0	#DIV/0!
2	0	0	AAAAAAGTTA	3617	#DIV/0!	1.0	#DIV/0!
1	1	0	AAAAAATCAT	3618	0.0	#DIV/0!	0.0
2	0	0	AAAAAGATAC	3619	1.0	0.0	0.0
0	1	1	AAAAAGGGTG	3620	0.0	#DIV/0!	0.0
1	0	1	AAAAATAGAG	3621	#DIV/0!	1.0	#DIV/0!
2	0	0	AAAAATTTAT	3622	0.0	#DIV/0!	1.0
0	1	1	AAAACAGAAG	3623	0.0	#DIV/0!	0.0
1	0	1	AAAACGATTT	3624	#DIV/0!	1.0	#DIV/0!
0	1	1	AAAAGAATCC	3625	0.0	#DIV/0!	1.0
0	2	0	AAAAGAATTT	3626	#DIV/0!	1.0	#DIV/0!
1	0	1	AAAAGTAGTT	3627	#DIV/0!	0.0	#DIV/0!
0	1	1	AAAATACAGC	3628	0.0	#DIV/0!	1.0
1	0	1	AAAATAGTGA	3629	#DIV/0!	1.0	#DIV/0!
1	1	0	AAAATATCTT	3630	0.0	#DIV/0!	1.0
0	1	1	AAAATGACCG	3631	1.0	0.0	0.0
1	1	0	AAAATTGTTC	3632	#DIV/0!	1.0	#DIV/0!
1	1	0	AAAATTTATA	3633	1.0	0.0	0.0
0	0	2	AAACAAACTG	3634	1.0	0.0	0.0
1	0	1	AAACAAGTGG	3635	#DIV/0!	#DIV/0!	#DIV/0!
0	2	0	AAACCAGTTG	3636	0.0	#DIV/0!	1.0
1	0	1	AAACCATTTA	3637	#DIV/0!	0.0	#DIV/0!
				3638	0.0	#DIV/0!	1.0

Table 5, cont.

0	0	2	AAACCGGATG	3639	#DIV/0!	#DIV/0!	#DIV/0!
0	1	1	AAACCGTGAA	3640	#DIV/0!	1.0	#DIV/0!
0	2	0	AAACGACTGT	3641	#DIV/0!	0.0	#DIV/0!
1	1	0	AAACGTCGCA	3642	1.0	0.0	0.0
2	0	0	AAACTATACC	3643	0.0	#DIV/0!	0.0
0	1	1	AAACTCTCTG	3644	#DIV/0!	1.0	#DIV/0!
1	0	1	AAACTCTTGA	3645	0.0	#DIV/0!	1.0
2	0	0	AAAGAAAAAA	3646	0.0	#DIV/0!	0.0
1	1	0	AAAGACTAAA	3647	1.0	0.0	0.0
0	2	0	AAAGAGCGAG	3648	#DIV/0!	0.0	#DIV/0!
0	1	1	AAAGATCCGA	3649	#DIV/0!	1.0	#DIV/0!
0	2	0	AAAGATTTCG	3650	#DIV/0!	0.0	#DIV/0!
0	0	2	AAAGCAGAGC	3651	#DIV/0!	#DIV/0!	#DIV/0!
1	0	1	AAAGCTGTCG	3652	0.0	#DIV/0!	1.0
1	1	0	AAAGCTTTAG	3653	1.0	0.0	0.0
0	0	2	AAAGGTCGTT	3654	#DIV/0!	#DIV/0!	#DIV/0!
0	0	2	AAAGTGCTAC	3655	#DIV/0!	#DIV/0!	#DIV/0!
0	0	2	AAAGTTTGGT	3656	#DIV/0!	#DIV/0!	#DIV/0!
0	2	0	AAATAAAAAA	3657	#DIV/0!	0.0	#DIV/0!
0	0	2	AAATAATTTT	3658	#DIV/0!	#DIV/0!	#DIV/0!
0	1	1	AAATACGACA	3659	#DIV/0!	1.0	#DIV/0!
1	1	0	AAATCATCTA	3660	1.0	0.0	0.0
1	0	1	AAATCCAATG	3661	0.0	#DIV/0!	1.0
0	2	0	AAATGAGTTT	3662	#DIV/0!	0.0	#DIV/0!
1	0	1	AAATGATTTG	3663	0.0	#DIV/0!	1.0
1	1	0	AAATTACAAA	3664	1.0	0.0	0.0
0	2	0	AAATTCAAAA	3665	#DIV/0!	0.0	#DIV/0!
0	1	1	AAATTGAATG	3666	#DIV/0!	1.0	#DIV/0!

Table 5, cont.

1	1	0	AAATTGCTTC	3667	1.0	0.0	0.0
0	2	0	AAATTTCATT	3668	#DIV/0!	0.0	#DIV/0!
1	1	0	AAATTTGGGG	3669	1.0	0.0	0.0
0	0	2	AACAAAATGG	3670	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	AACAAAGTTT	3671	1.0	0.0	0.0
0	2	0	AACAAGAATA	3672	#DIV/0!	0.0	#DIV/0!
0	2	0	AACAAGACTT	3673	#DIV/0!	0.0	#DIV/0!
1	1	0	AACAATCCAA	3674	1.0	0.0	0.0
1	0	1	AACAATTCAG	3675	0.0	#DIV/0!	1.0
1	0	1	AACAATTCGC	3676	0.0	#DIV/0!	1.0
0	2	0	AACACAGCCA	3677	#DIV/0!	0.0	#DIV/0!
1	0	1	AACACTTGTC	3678	0.0	#DIV/0!	1.0
0	0	2	AACAGACAAT	3679	#DIV/0!	#DIV/0!	#DIV/0!
1	0	1	AACAGACCCA	3680	0.0	#DIV/0!	1.0
1	0	1	AACAGGCTAT	3681	0.0	#DIV/0!	1.0
1	0	1	AACCAAAGAC	3682	0.0	#DIV/0!	1.0
0	1	1	AACCAGTGTC	3683	#DIV/0!	1.0	#DIV/0!
1	0	1	AACCCTTTTA	3684	0.0	#DIV/0!	1.0
0	2	0	AACCTTAACC	3685	#DIV/0!	0.0	#DIV/0!
0	1	1	AACGACTTGA	3686	#DIV/0!	1.0	#DIV/0!
0	1	1	AACGTAGTGC	3687	#DIV/0!	1.0	#DIV/0!
0	0	2	AACGTGGAAG	3688	#DIV/0!	#DIV/0!	#DIV/0!
2	0	0	AACGTTTAAA	3689	0.0	#DIV/0!	0.0
1	1	0	AACTAATGGA	3690	1.0	0.0	0.0
0	2	0	AACTATAATA	3691	#DIV/0!	0.0	#DIV/0!
1	1	0	AACTATGTTT	3692	1.0	0.0	0.0
0	0	2	AACTCACAAA	3693	#DIV/0!	#DIV/0!	#DIV/0!
1	0	1	AACTCGAAAA	3694	0.0	#DIV/0!	1.0

Table 5, cont.

1	1	0	AACTCGCACA	3695	1.0	0.0	0.0
1	0	1	AACTGAACTG	3696	0.0	#DIV/0!	1.0
0	2	0	AACTGCAAGA	3697	#DIV/0!	0.0	#DIV/0!
0	1	1	AACTGTATGC	3698	#DIV/0!	1.0	#DIV/0!
0	1	1	AACTTATTTC	3699	#DIV/0!	1.0	#DIV/0!
1	1	0	AACTTCCTAA	3700	1.0	0.0	0.0
1	1	0	AACTTTGTAT	3701	1.0	0.0	0.0
0	1	1	AAGAAAGAAC	3702	#DIV/0!	1.0	#DIV/0!
1	0	1	AAGAAATTCC	3703	0.0	#DIV/0!	1.0
1	1	0	AAGAAGAAGA	3704	1.0	0.0	0.0
1	1	0	AAGACCTGGC	3705	1.0	0.0	0.0
0	2	0	AAGACTGTTG	3706	#DIV/0!	0.0	#DIV/0!
1	1	0	AAGAGAGTCA	3707	1.0	0.0	0.0
1	0	1	AAGAGCCAGA	3708	0.0	#DIV/0!	1.0
1	0	1	AAGAGGATTG	3709	0.0	#DIV/0!	1.0
2	0	0	AAGATCATCG	3710	0.0	#DIV/0!	0.0
0	1	1	AAGATGAAGA	3711	#DIV/0!	1.0	#DIV/0!
0	1	1	AAGATGAAGG	3712	#DIV/0!	1.0	#DIV/0!
1	0	1	AAGATGAGTT	3713	0.0	#DIV/0!	1.0
0	1	1	AAGATGGAAT	3714	#DIV/0!	1.0	#DIV/0!
2	0	0	AAGATTGGAC	3715	0.0	#DIV/0!	0.0
1	0	1	AAGCAAACTG	3716	0.0	#DIV/0!	1.0
0	0	2	AAGCCATTCA	3717	#DIV/0!	#DIV/0!	#DIV/0!
0	1	1	AAGCCTTAGC	3718	#DIV/0!	1.0	#DIV/0!
0	1	1	AAGCGCACAA	3719	#DIV/0!	1.0	#DIV/0!
1	1	0	AAGCTATTCA	3720	1.0	0.0	0.0
1	1	0	AAGCTTCATC	3721	1.0	0.0	0.0
1	1	0	AAGGACTTGC	3722	1.0	0.0	0.0

Table 5, cont.

1	1	0	AAGGACTTTA	3723	1.0	0.0	0.0
2	0	0	AAGGAGACAC	3724	0.0	#DIV/0!	0.0
2	0	0	AAGGAGAGGA	3725	0.0	#DIV/0!	0.0
0	0	2	AAGGATTCAG	3726	#DIV/0!	#DIV/0!	#DIV/0!
0	1	1	AAGGCCAGAG	3727	#DIV/0!	1.0	#DIV/0!
0	2	0	AAGGCTAATG	3728	#DIV/0!	0.0	#DIV/0!
2	0	0	AAGGGTTTTG	3729	0.0	#DIV/0!	0.0
2	0	0	AAGTACCATT	3730	0.0	#DIV/0!	0.0
1	0	1	AAGTCATTGG	3731	0.0	#DIV/0!	1.0
0	2	0	AAGTCCAACT	3732	#DIV/0!	0.0	#DIV/0!
0	1	1	AAGTCTACAT	3733	#DIV/0!	1.0	#DIV/0!
1	0	1	AAGTCTCAGC	3734	0.0	#DIV/0!	1.0
0	1	1	AAGTGATGAA	3735	#DIV/0!	1.0	#DIV/0!
1	1	0	AAGTGGAGGA	3736	1.0	0.0	0.0
1	0	1	AAGTGGTTTA	3737	0.0	#DIV/0!	1.0
1	0	1	AAGTTACAAT	3738	0.0	#DIV/0!	1.0
0	2	0	AAGTTATAGT	3739	#DIV/0!	0.0	#DIV/0!
1	1	0	AAGTTCTCCA	3740	1.0	0.0	0.0
0	0	2	AAGTTGAGGA	3741	#DIV/0!	#DIV/0!	#DIV/0!
0	0	2	AAGTTGCAAC	3742	#DIV/0!	#DIV/0!	#DIV/0!
0	2	0	AAGTTGGCTA	3743	#DIV/0!	0.0	#DIV/0!
0	0	2	AAGTTTGATC	3744	#DIV/0!	#DIV/0!	#DIV/0!
1	0	1	AAGTTTTTTT	3745	0.0	#DIV/0!	1.0
0	1	1	AATAAAGACA	3746	#DIV/0!	1.0	#DIV/0!
0	2	0	AATACCAATG	3747	#DIV/0!	0.0	#DIV/0!
0	1	1	AATACGCATA	3748	#DIV/0!	1.0	#DIV/0!
0	2	0	AATACGTTAC	3749	#DIV/0!	0.0	#DIV/0!
1	1	0	AATAGAGGAT	3750	1.0	0.0	0.0

Table 5, cont.

0	1	1	AATAGCAGCA	3751	#DIV/0!	1.0	#DIV/0!
1	1	0	AATAGCCTCA	3752	1.0	0.0	0.0
1	1	0	AATATATATA	3753	1.0	0.0	0.0
0	1	1	AATATCAAGG	3754	#DIV/0!	1.0	#DIV/0!
0	1	1	AATATGACGA	3755	#DIV/0!	1.0	#DIV/0!
0	1	1	AATATTTATT	3756	#DIV/0!	1.0	#DIV/0!
1	0	1	AATCAATAAA	3757	0.0	#DIV/0!	1.0
0	1	1	AATCCAGGTG	3758	#DIV/0!	1.0	#DIV/0!
0	1	1	AATCCATTCC	3759	#DIV/0!	1.0	#DIV/0!
0	0	2	AATCCCAGTT	3760	#DIV/0!	#DIV/0!	#DIV/0!
0	1	1	AATCGAGAAA	3761	#DIV/0!	1.0	#DIV/0!
1	1	0	AATCTACTTT	3762	1.0	0.0	0.0
1	0	1	AATGAAACAA	3763	0.0	#DIV/0!	1.0
1	0	1	AATGAAGAAC	3764	0.0	#DIV/0!	1.0
1	1	0	AATGACTTAT	3765	1.0	0.0	0.0
0	1	1	AATGGGAAAA	3766	#DIV/0!	1.0	#DIV/0!
0	2	0	AATGGGTTTT	3767	#DIV/0!	0.0	#DIV/0!
0	2	0	AATGTAATAT	3768	#DIV/0!	0.0	#DIV/0!
2	0	0	AATGTACAGA	3769	0.0	#DIV/0!	0.0
0	1	1	AATGTATAAC	3770	#DIV/0!	1.0	#DIV/0!
0	1	1	AATGTGCACT	3771	#DIV/0!	1.0	#DIV/0!
0	1	1	AATGTGCTGT	3772	#DIV/0!	1.0	#DIV/0!
0	2	0	AATGTGGAAC	3773	#DIV/0!	0.0	#DIV/0!
1	1	0	AATTAAGATC	3774	1.0	0.0	0.0
1	0	1	AATTATTGAA	3775	0.0	#DIV/0!	1.0
2	0	0	AATTCAGGTC	3776	0.0	#DIV/0!	0.0
0	2	0	AATTCCTTTT	3777	#DIV/0!	0.0	#DIV/0!
0	2	0	AATTGAAAAA	3778	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

1	1	0	AATTGAAGTA	3779	1.0	0.0	0.0
1	1	0	AATTGGCGAA	3780	1.0	0.0	0.0
0	2	0	AATTGGTTCA	3781	#DIV/0!	0.0	#DIV/0!
1	1	0	AATTTAAGAC	3782	1.0	0.0	0.0
0	0	2	AATTTCACAG	3783	#DIV/0!	#DIV/0!	#DIV/0!
0	2	0	AATTTGGTGG	3784	#DIV/0!	0.0	#DIV/0!
0	1	1	AATTTTTCGA	3785	#DIV/0!	1.0	#DIV/0!
0	2	0	ACAAAGAAAG	3786	#DIV/0!	0.0	#DIV/0!
1	0	1	ACAAATGGGT	3787	0.0	#DIV/0!	1.0
1	1	0	ACAAGAACTT	3788	1.0	0.0	0.0
0	1	1	ACAAGCCCAA	3789	#DIV/0!	1.0	#DIV/0!
1	1	0	ACAAGGAACT	3790	1.0	0.0	0.0
1	1	0	ACAATAGATT	3791	1.0	0.0	0.0
0	0	2	ACAATGATGA	3792	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	ACACATCATA	3793	1.0	0.0	0.0
0	2	0	ACACCACCAG	3794	#DIV/0!	0.0	#DIV/0!
1	0	1	ACACCAGAAG	3795	0.0	#DIV/0!	1.0
1	0	1	ACACCCAAGG	3796	0.0	#DIV/0!	1.0
1	1	0	ACACGTAAAA	3797	1.0	0.0	0.0
0	2	0	ACACGTACAA	3798	#DIV/0!	0.0	#DIV/0!
0	1	1	ACAGAAAAAA	3799	#DIV/0!	1.0	#DIV/0!
0	2	0	ACAGAATATC	3800	#DIV/0!	0.0	#DIV/0!
2	0	0	ACAGATTCTT	3801	0.0	#DIV/0!	0.0
0	1	1	ACAGGCACCC	3802	#DIV/0!	1.0	#DIV/0!
2	0	0	ACAGGCTTGC	3803	0.0	#DIV/0!	0.0
1	0	1	ACATACTTGG	3804	0.0	#DIV/0!	1.0
0	0	2	ACATCACTGA	3805	#DIV/0!	#DIV/0!	#DIV/0!
0	2	0	ACATCATTAC	3806	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	2	0	ACCAAAATGT	3807	#DIV/0!	0.0	#DIV/0!
1	0	1	ACCAACAAGA	3808	0.0	#DIV/0!	1.0
1	0	1	ACCAGACCAG	3809	0.0	#DIV/0!	1.0
1	1	0	ACCAGGTCCT	3810	1.0	0.0	0.0
0	2	0	ACCATCGAAT	3811	#DIV/0!	0.0	#DIV/0!
0	1	1	ACCCAAGCAA	3812	#DIV/0!	1.0	#DIV/0!
0	2	0	ACCCCGTACA	3813	#DIV/0!	0.0	#DIV/0!
2	0	0	ACCGAATTTG	3814	0.0	#DIV/0!	0.0
0	2	0	ACCGCAAAGA	3815	#DIV/0!	0.0	#DIV/0!
1	0	1	ACCGCATTAG	3816	0.0	#DIV/0!	1.0
2	0	0	ACCGCCTAGG	3817	0.0	#DIV/0!	0.0
2	0	0	ACCGGACGTT	3818	0.0	#DIV/0!	0.0
1	0	1	ACCGTTACAT	3819	0.0	#DIV/0!	1.0
1	1	0	ACCGTTGTGC	3820	1.0	0.0	0.0
0	1	1	ACCTATAATT	3821	#DIV/0!	1.0	#DIV/0!
0	0	2	ACCTTTTTAG	3822	#DIV/0!	#DIV/0!	#DIV/0!
0	0	2	ACGAAATAGA	3823	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	ACGAACACTT	3824	1.0	0.0	0.0
0	0	2	ACGAAGGACT	3825	#DIV/0!	#DIV/0!	#DIV/0!
0	1	1	ACGAATTAAA	3826	#DIV/0!	1.0	#DIV/0!
1	1	0	ACGAATTGTG	3827	1.0	0.0	0.0
1	1	0	ACGATGCAAA	3828	1.0	0.0	0.0
0	1	1	ACGATTGGCT	3829	#DIV/0!	1.0	#DIV/0!
1	1	0	ACGCAGCCAG	3830	1.0	0.0	0.0
0	0	2	ACGCCGCCAA	3831	#DIV/0!	#DIV/0!	#DIV/0!
0	1	1	ACGCCTGATT	3832	#DIV/0!	1.0	#DIV/0!
0	1	1	ACGCCTGGAT	3833	#DIV/0!	1.0	#DIV/0!
0	0	2	ACGGACTTCT	3834	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

0	1	1	ACGGCAAATA	3835	#DIV/0!	1.0	#DIV/0!
0	2	0	ACGGTCAGGG	3836	#DIV/0!	0.0	#DIV/0!
1	1	0	ACGTATTATG	3837	1.0	0.0	0.0
0	0	2	ACGTCATTGA	3838	#DIV/0!	#DIV/0!	#DIV/0!
0	1	1	ACGTCTTTTT	3839	#DIV/0!	1.0	#DIV/0!
1	1	0	ACGTGCAGTA	3840	1.0	0.0	0.0
1	1	0	ACGTTATATA	3841	1.0	0.0	0.0
1	0	1	ACGTTCAAAT	3842	0.0	#DIV/0!	1.0
0	2	0	ACTAAGACAT	3843	#DIV/0!	0.0	#DIV/0!
1	0	1	ACTAATGACG	3844	0.0	#DIV/0!	1.0
0	1	1	ACTAGGCCAC	3845	#DIV/0!	1.0	#DIV/0!
0	1	1	ACTATATGTT	3846	#DIV/0!	1.0	#DIV/0!
0	2	0	ACTATTCTGT	3847	#DIV/0!	0.0	#DIV/0!
0	1	1	ACTCAAAAAG	3848	#DIV/0!	1.0	#DIV/0!
0	1	1	ACTCCCTGTA	3849	#DIV/0!	1.0	#DIV/0!
1	1	0	ACTCCTGGAA	3850	1.0	0.0	0.0
1	0	1	ACTCCTGTTG	3851	0.0	#DIV/0!	1.0
1	0	1	ACTCTTACTT	3852	0.0	#DIV/0!	1.0
0	0	2	ACTCTTTCTG	3853	#DIV/0!	#DIV/0!	#DIV/0!
0	2	0	ACTGAAAAAA	3854	#DIV/0!	0.0	#DIV/0!
0	2	0	ACTGAGTGTC	3855	#DIV/0!	0.0	#DIV/0!
0	2	0	ACTGCATCTG	3856	#DIV/0!	0.0	#DIV/0!
0	2	0	ACTGCTATTT	3857	#DIV/0!	0.0	#DIV/0!
0	2	0	ACTGCTGATA	3858	#DIV/0!	0.0	#DIV/0!
2	0	0	ACTGTTTATG	3859	0.0	#DIV/0!	0.0
1	1	0	ACTTAAAAAA	3860	1.0	0.0	0.0
0	2	0	ACTTATATCT	3861	#DIV/0!	0.0	#DIV/0!
2	0	0	ACTTATTTTA	3862	0.0	#DIV/0!	0.0

Table 5, cont.

1	1	0	ACTTCTGGTC	3863	1.0	0.0	0.0
0	1	1	ACTTGATATA	3864	#DIV/0!	1.0	#DIV/0!
0	1	1	ACTTGCTTTA	3865	#DIV/0!	1.0	#DIV/0!
0	0	2	ACTTGGTATG	3866	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	ACTTTCTAAT	3867	1.0	0.0	0.0
1	1	0	ACTTTTAAAC	3868	1.0	0.0	0.0
0	2	0	AGAAAAAAAC	3869	#DIV/0!	0.0	#DIV/0!
0	0	2	AGAAACAAGT	3870	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	AGAAAGCTAT	3871	1.0	0.0	0.0
0	1	1	AGAAAGTCAG	3872	#DIV/0!	1.0	#DIV/0!
0	1	1	AGAAATATGT	3873	#DIV/0!	1.0	#DIV/0!
1	0	1	AGAAATTTGG	3874	0.0	#DIV/0!	1.0
0	1	1	AGAACATAAC	3875	#DIV/0!	1.0	#DIV/0!
0	2	0	AGAAGAACCA	3876	#DIV/0!	0.0	#DIV/0!
1	0	1	AGAAGGGCTA	3877	0.0	#DIV/0!	1.0
2	0	0	AGAATTGATT	3878	0.0	#DIV/0!	0.0
0	0	2	AGACAAACCG	3879	#DIV/0!	#DIV/0!	#DIV/0!
2	0	0	AGACAAACTC	3880	0.0	#DIV/0!	0.0
1	0	1	AGACAACTGA	3881	0.0	#DIV/0!	1.0
0	0	2	AGACAGGCCA	3882	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	AGACCAGTGC	3883	1.0	0.0	0.0
0	0	2	AGACCTGCCC	3884	#DIV/0!	#DIV/0!	#DIV/0!
0	0	2	AGAGAGCAAG	3885	#DIV/0!	#DIV/0!	#DIV/0!
0	1	1	AGAGAGGTAT	3886	#DIV/0!	1.0	#DIV/0!
1	1	0	AGAGCAGCTG	3887	1.0	0.0	0.0
2	0	0	AGAGCGAATT	3888	0.0	#DIV/0!	0.0
0	0	2	AGAGGGATGA	3889	#DIV/0!	#DIV/0!	#DIV/0!
0	1	1	AGAGTATTTT	3890	#DIV/0!	1.0	#DIV/0!

Table 5, cont.

2	0	0	AGAGTTTTAC	3891	0.0	#DIV/0!	0.0
0	1	1	AGATACTGAC	3892	#DIV/0!	1.0	#DIV/0!
1	0	1	AGATATGGAT	3893	0.0	#DIV/0!	1.0
0	2	0	AGATCGAGGA	3894	#DIV/0!	0.0	#DIV/0!
0	1	1	AGATTGTGCC	3895	#DIV/0!	1.0	#DIV/0!
2	0	0	AGCAAGAAGA	3896	0.0	#DIV/0!	0.0
2	0	0	AGCAATTTTT	3897	0.0	#DIV/0!	0.0
1	0	1	AGCACACGCT	3898	0.0	#DIV/0!	1.0
0	1	1	AGCACCTATG	3899	#DIV/0!	1.0	#DIV/0!
0	1	1	AGCACTCCCT	3900	#DIV/0!	1.0	#DIV/0!
2	0	0	AGCATATCAA	3901	0.0	#DIV/0!	0.0
0	1	1	AGCCATAATT	3902	#DIV/0!	1.0	#DIV/0!
1	1	0	AGCCCACGGC	3903	1.0	0.0	0.0
0	0	2	AGCCCGTTTT	3904	#DIV/0!	#DIV/0!	#DIV/0!
0	0	2	AGCGAATGTA	3905	#DIV/0!	#DIV/0!	#DIV/0!
0	2	0	AGCGTTTGAT	3906	#DIV/0!	0.0	#DIV/0!
1	1	0	AGCTATCTTT	3907	1.0	0.0	0.0
0	1	1	AGCTATTATA	3908	#DIV/0!	1.0	#DIV/0!
2	0	0	AGGAAAAAGA	3909	0.0	#DIV/0!	0.0
0	0	2	AGGAAGCAAG	3910	#DIV/0!	#DIV/0!	#DIV/0!
0	0	2	AGGACACTCA	3911	#DIV/0!	#DIV/0!	#DIV/0!
2	0	0	AGGAGAACAC	3912	0.0	#DIV/0!	0.0
2	0	0	AGGAGGGTAT	3913	0.0	#DIV/0!	0.0
0	2	0	AGGATCCGAA	3914	#DIV/0!	0.0	#DIV/0!
0	1	1	AGGCAAGAGA	3915	#DIV/0!	1.0	#DIV/0!
1	0	1	AGGCAGCGCT	3916	0.0	#DIV/0!	1.0
1	0	1	AGGCCGTTTT	3917	0.0	#DIV/0!	1.0
0	0	2	AGGCTGCAGT	3918	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

0	1	1	AGGGTCATTC	3919	#DIV/0!	1.0	#DIV/0!
0	2	0	AGGGTTCTTG	3920	#DIV/0!	0.0	#DIV/0!
1	1	0	AGGTAGGGTG	3921	1.0	0.0	0.0
1	0	1	AGGTATGCAC	3922	0.0	#DIV/0!	1.0
1	1	0	AGGTCTATGG	3923	1.0	0.0	0.0
0	1	1	AGGTGCAAAA	3924	#DIV/0!	1.0	#DIV/0!
0	1	1	AGGTGCATCA	3925	#DIV/0!	1.0	#DIV/0!
0	0	2	AGGTGGTTAA	3926	#DIV/0!	#DIV/0!	#DIV/0!
0	2	0	AGGTTCAAAA	3927	#DIV/0!	0.0	#DIV/0!
0	1	1	AGGTTGACAT	3928	#DIV/0!	1.0	#DIV/0!
0	1	1	AGTATAGCTA	3929	#DIV/0!	1.0	#DIV/0!
0	2	0	AGTGACGATG	3930	#DIV/0!	0.0	#DIV/0!
0	1	1	AGTGACTTAC	3931	#DIV/0!	1.0	#DIV/0!
0	0	2	AGTGATTGTT	3932	#DIV/0!	#DIV/0!	#DIV/0!
2	0	0	AGTGCCAATG	3933	0.0	#DIV/0!	0.0
0	1	1	AGTGGAAAAG	3934	#DIV/0!	1.0	#DIV/0!
2	0	0	AGTGTGTCTA	3935	0.0	#DIV/0!	0.0
0	1	1	AGTGTTAACG	3936	#DIV/0!	1.0	#DIV/0!
1	0	1	AGTTATTCCC	3937	0.0	#DIV/0!	1.0
0	2	0	AGTTGTATCC	3938	#DIV/0!	0.0	#DIV/0!
1	0	1	AGTTTCAAAA	3939	0.0	#DIV/0!	1.0
0	1	1	AGTTTCGGTT	3940	#DIV/0!	1.0	#DIV/0!
2	0	0	AGTTTTCCTG	3941	0.0	#DIV/0!	0.0
1	1	0	ATAAAATCTT	3942	1.0	0.0	0.0
2	0	0	ATAAACCACT	3943	0.0	#DIV/0!	0.0
0	0	2	ATAAACCTGA	3944	#DIV/0!	#DIV/0!	#DIV/0!
1	0	1	ATAACACCTC	3945	0.0	#DIV/0!	1.0
1	0	1	ATAACTTCGG	3946	0.0	#DIV/0!	1.0

Table 5, cont.

0	1	1	ATAAGACGGC	3947	#DIV/0!	1.0	#DIV/0!
1	1	0	ATAAGTAAAA	3948	1.0	0.0	0.0
0	2	0	ATAAGTGTGC	3949	#DIV/0!	0.0	#DIV/0!
1	1	0	ATAATAATGG	3950	1.0	0.0	0.0
0	1	1	ATAATGATAC	3951	#DIV/0!	1.0	#DIV/0!
2	0	0	ATAATTGGAG	3952	0.0	#DIV/0!	0.0
1	1	0	ATAATTTTTT	3953	1.0	0.0	0.0
0	1	1	ATACAGATTC	3954	#DIV/0!	1.0	#DIV/0!
2	0	0	ATACATCGCA	3955	0.0	#DIV/0!	0.0
0	2	0	ATACCAAGTT	3956	#DIV/0!	0.0	#DIV/0!
0	0	2	ATACCCAATT	3957	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	ATACGTGTAC	3958	1.0	0.0	0.0
1	1	0	ATACTTGAAT	3959	1.0	0.0	0.0
1	1	0	ATAGCAAAGG	3960	1.0	0.0	0.0
1	1	0	ATAGTACAGA	3961	1.0	0.0	0.0
0	1	1	ATAGTAGATG	3962	#DIV/0!	1.0	#DIV/0!
1	1	0	ATATAAAAAA	3963	1.0	0.0	0.0
1	1	0	ATATAGACGC	3964	1.0	0.0	0.0
1	0	1	ATATATAATC	3965	0.0	#DIV/0!	1.0
0	1	1	ATATATTTGA	3966	#DIV/0!	1.0	#DIV/0!
1	0	1	ATATCCCTAC	3967	0.0	#DIV/0!	1.0
0	1	1	ATATGACGTC	3968	#DIV/0!	1.0	#DIV/0!
1	1	0	ATATTGAATC	3969	1.0	0.0	0.0
0	0	2	ATCAACGGGG	3970	#DIV/0!	#DIV/0!	#DIV/0!
0	1	1	ATCACAGTAT	3971	#DIV/0!	1.0	#DIV/0!
0	0	2	ATCACCTATT	3972	#DIV/0!	#DIV/0!	#DIV/0!
0	0	2	ATCACTGGGT	3973	#DIV/0!	#DIV/0!	#DIV/0!
1	0	1	ATCACTGGTT	3974	0.0	#DIV/0!	1.0

Table 5, cont.

0	0	2	ATCAGAATGC	3975	#DIV/0!	#DIV/0!	#DIV/0!
0	2	0	ATCATAATCA	3976	#DIV/0!	0.0	#DIV/0!
0	2	0	ATCATTGCAA	3977	#DIV/0!	0.0	#DIV/0!
0	2	0	ATCATTTTAT	3978	#DIV/0!	0.0	#DIV/0!
2	0	0	ATCCAGTTGA	3979	0.0	#DIV/0!	0.0
0	2	0	ATCCGCCAGA	3980	#DIV/0!	0.0	#DIV/0!
1	0	1	ATCCTTCAGG	3981	0.0	#DIV/0!	1.0
0	1	1	ATCGCGATTG	3982	#DIV/0!	1.0	#DIV/0!
0	0	2	ATCGCGGCTC	3983	#DIV/0!	#DIV/0!	#DIV/0!
1	0	1	ATCGGTGGTC	3984	0.0	#DIV/0!	1.0
0	1	1	ATCTAATAAT	3985	#DIV/0!	1.0	#DIV/0!
0	0	2	ATCTCTTGAG	3986	#DIV/0!	#DIV/0!	#DIV/0!
2	0	0	ATCTGTATGT	3987	0.0	#DIV/0!	0.0
1	0	1	ATCTTTAATC	3988	0.0	#DIV/0!	1.0
0	2	0	ATCTTTATCA	3989	#DIV/0!	0.0	#DIV/0!
1	0	1	ATCTTTCACC	3990	0.0	#DIV/0!	1.0
2	0	0	ATGAACTTAT	3991	0.0	#DIV/0!	0.0
1	1	0	ATGAACTTTG	3992	1.0	0.0	0.0
1	0	1	ATGAAGACGT	3993	0.0	#DIV/0!	1.0
0	1	1	ATGAAGGTTG	3994	#DIV/0!	1.0	#DIV/0!
1	1	0	ATGACCCCAA	3995	1.0	0.0	0.0
1	1	0	ATGACGATGA	3996	1.0	0.0	0.0
0	1	1	ATGACGCTAA	3997	#DIV/0!	1.0	#DIV/0!
0	1	1	ATGACGTGGA	3998	#DIV/0!	1.0	#DIV/0!
1	0	1	ATGAGCATTT	3999	0.0	#DIV/0!	1.0
1	0	1	ATGAGCTTTA	4000	0.0	#DIV/0!	1.0
0	0	2	ATGAGGCGCT	4001	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	ATGAGTTATT	4002	1.0	0.0	0.0

Table 5, cont.

1	0	1	ATGAGTTTGG	4003	0.0	#DIV/0!	1.0
0	2	0	ATGATGGCAC	4004	#DIV/0!	0.0	#DIV/0!
0	1	1	ATGATGTGAT	4005	#DIV/0!	1.0	#DIV/0!
1	1	0	ATGATTTGTA	4006	1.0	0.0	0.0
0	1	1	ATGCAAAAAA	4007	#DIV/0!	1.0	#DIV/0!
2	0	0	ATGCAAAGAA	4008	0.0	#DIV/0!	0.0
0	2	0	ATGCAGAGTA	4009	#DIV/0!	0.0	#DIV/0!
0	2	0	ATGCATTATG	4010	#DIV/0!	0.0	#DIV/0!
1	0	1	ATGCTATGTC	4011	0.0	#DIV/0!	1.0
0	0	2	ATGCTGGAGT	4012	#DIV/0!	#DIV/0!	#DIV/0!
0	2	0	ATGCTGTTAA	4013	#DIV/0!	0.0	#DIV/0!
0	1	1	ATGGAACTTG	4014	#DIV/0!	1.0	#DIV/0!
1	1	0	ATGGAGCATC	4015	1.0	0.0	0.0
1	0	1	ATGGAGGTTC	4016	0.0	#DIV/0!	1.0
0	2	0	ATGGCTCAGT	4017	#DIV/0!	0.0	#DIV/0!
0	1	1	ATGGGATAAA	4018	#DIV/0!	1.0	#DIV/0!
1	1	0	ATGGTTTTAA	4019	1.0	0.0	0.0
1	1	0	ATGTAGATGG	4020	1.0	0.0	0.0
1	1	0	ATGTCAAGTG	4021	1.0	0.0	0.0
0	0	2	ATGTCAGTGA	4022	#DIV/0!	#DIV/0!	#DIV/0!
0	2	0	ATTAAATAAA	4023	#DIV/0!	0.0	#DIV/0!
0	2	0	ATTAATATGA	4024	#DIV/0!	0.0	#DIV/0!
0	1	1	ATTAATGACC	4025	#DIV/0!	1.0	#DIV/0!
0	0	2	ATTACTGCCA	4026	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	ATTATTCTTG	4027	1.0	0.0	0.0
1	0	1	ATTCACGTAT	4028	0.0	#DIV/0!	1.0
1	1	0	ATTCCCGTGG	4029	1.0	0.0	0.0
0	1	1	ATTCCTTGCA	4030	#DIV/0!	1.0	#DIV/0!

Table 5, cont.

0	1	1	ATTCGTAAAG	4031	#DIV/0!	1.0	#DIV/0!
1	0	1	ATTCTGGATC	4032	0.0	#DIV/0!	1.0
2	0	0	ATTGAAAAAA	4033	0.0	#DIV/0!	0.0
2	0	0	ATTGAGCAAA	4034	0.0	#DIV/0!	0.0
0	2	0	ATTGATGCGG	4035	#DIV/0!	0.0	#DIV/0!
1	0	1	ATTGCGCCCT	4036	0.0	#DIV/0!	1.0
1	1	0	ATTGCGCTTA	4037	1.0	0.0	0.0
0	1	1	ATTGCGGTCT	4038	#DIV/0!	1.0	#DIV/0!
0	2	0	ATTGCTACTT	4039	#DIV/0!	0.0	#DIV/0!
0	1	1	ATTGCTTTAC	4040	#DIV/0!	1.0	#DIV/0!
0	2	0	ATTGTAAAAA	4041	#DIV/0!	0.0	#DIV/0!
2	0	0	ATTGTAGTAA	4042	0.0	#DIV/0!	0.0
0	2	0	ATTGTGATTG	4043	#DIV/0!	0.0	#DIV/0!
0	2	0	ATTGTTTAAC	4044	#DIV/0!	0.0	#DIV/0!
1	0	1	ATTGTTTGCA	4045	0.0	#DIV/0!	1.0
0	1	1	ATTTAAAACA	4046	#DIV/0!	1.0	#DIV/0!
0	2	0	ATTTAATACC	4047	#DIV/0!	0.0	#DIV/0!
0	1	1	ATTTCCCTAA	4048	#DIV/0!	1.0	#DIV/0!
0	2	0	ATTTGGAAAC	4049	#DIV/0!	0.0	#DIV/0!
2	0	0	ATTTGTATAT	4050	0.0	#DIV/0!	0.0
1	1	0	ATTTTATATA	4051	1.0	0.0	0.0
0	2	0	ATTTTGAAAA	4052	#DIV/0!	0.0	#DIV/0!
0	1	1	ATTTTTGCTA	4053	#DIV/0!	1.0	#DIV/0!
0	0	2	ATTTTTTTCT	4054	#DIV/0!	#DIV/0!	#DIV/0!
2	0	0	ATTTTTTTTT	4055	0.0	#DIV/0!	0.0
0	1	1	CAAAAAGTCG	4056	#DIV/0!	1.0	#DIV/0!
0	0	2	CAAAACCCTA	4057	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	CAAACTTTTC	4058	1.0	0.0	0.0

Table 5, cont.

1	0	1	CAAATAAGTG	4059	0.0	#DIV/0!	1.0
0	1	1	CAAATGAGAA	4060	#DIV/0!	1.0	#DIV/0!
0	1	1	CAAATGCATT	4061	#DIV/0!	1.0	#DIV/0!
0	1	1	CAAATTGTGT	4062	#DIV/0!	1.0	#DIV/0!
0	1	1	CAACAATGGC	4063	#DIV/0!	1.0	#DIV/0!
1	1	0	CAACCAGTTA	4064	1.0	0.0	0.0
0	1	1	CAACTAGCAA	4065	#DIV/0!	1.0	#DIV/0!
1	0	1	CAAGAAGAAA	4066	0.0	#DIV/0!	1.0
0	1	1	CAAGAAGGGC	4067	#DIV/0!	1.0	#DIV/0!
0	1	1	CAAGACCAGT	4068	#DIV/0!	1.0	#DIV/0!
1	0	1	CAAGATGAAA	4069	0.0	#DIV/0!	1.0
1	1	0	CAAGCGTGCA	4070	1.0	0.0	0.0
0	1	1	CAAGCTTTCT	4071	#DIV/0!	1.0	#DIV/0!
0	2	0	CAAGTAGATA	4072	#DIV/0!	0.0	#DIV/0!
2	0	0	CAAGTTAAAA	4073	0.0	#DIV/0!	0.0
0	0	2	CAAGTTAGGA	4074	#DIV/0!	#DIV/0!	#DIV/0!
0	2	0	CAATATTCAA	4075	#DIV/0!	0.0	#DIV/0!
1	1	0	CAATGAATGA	4076	1.0	0.0	0.0
0	2	0	CAATGTATAT	4077	#DIV/0!	0.0	#DIV/0!
0	1	1	CAATTATTAA	4078	#DIV/0!	1.0	#DIV/0!
1	0	1	CAATTGGCAA	4079	0.0	#DIV/0!	1.0
1	0	1	CACAAAAGGA	4080	0.0	#DIV/0!	1.0
2	0	0	CACAACTACA	4081	0.0	#DIV/0!	0.0
0	0	2	CACACCAAGC	4082	#DIV/0!	#DIV/0!	#DIV/0!
0	1	1	CACACCAGGA	4083	#DIV/0!	1.0	#DIV/0!
1	0	1	CACACGCTCA	4084	0.0	#DIV/0!	1.0
1	1	0	CACAGTACCT	4085	1.0	0.0	0.0
1	0	1	CACATAATCT	4086	0.0	#DIV/0!	1.0

Table 5, cont.

0	1	1	CACATCCTCA	4087	#DIV/0!	1.0	#DIV/0!
1	1	0	CACCAGTGTA	4088	1.0	0.0	0.0
2	0	0	CACCTATGAA	4089	0.0	#DIV/0!	0.0
2	0	0	CACGATCGAC	4090	0.0	#DIV/0!	0.0
0	1	1	CACTACCCAG	4091	#DIV/0!	1.0	#DIV/0!
0	1	1	CACTATTAGC	4092	#DIV/0!	1.0	#DIV/0!
0	1	1	CACTGTCTCC	4093	#DIV/0!	1.0	#DIV/0!
2	0	0	CACTTTATAA	4094	0.0	#DIV/0!	0.0
0	1	1	CAGAATTTCA	4095	#DIV/0!	1.0	#DIV/0!
0	0	2	CAGACTTGGC	4096	#DIV/0!	#DIV/0!	#DIV/0!
2	0	0	CAGAGACGCT	4097	0.0	#DIV/0!	0.0
0	0	2	CAGATGATAA	4098	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	CAGCAACTAC	4099	1.0	0.0	0.0
1	0	1	CAGCTACTCA	4100	0.0	#DIV/0!	1.0
0	0	2	CAGCTTATGG	4101	#DIV/0!	#DIV/0!	#DIV/0!
1	0	1	CAGGATAAAC	4102	0.0	#DIV/0!	1.0
0	2	0	CAGGTTTAGC	4103	#DIV/0!	0.0	#DIV/0!
1	0	1	CAGTACAAAC	4104	0.0	#DIV/0!	1.0
2	0	0	CATAAAAAAA	4105	0.0	#DIV/0!	0.0
0	1	1	CATACAGCAA	4106	#DIV/0!	1.0	#DIV/0!
0	2	0	CATACTCTAT	4107	#DIV/0!	0.0	#DIV/0!
1	1	0	CATAGAAAAA	4108	1.0	0.0	0.0
1	1	0	CATAGAAAGT	4109	1.0	0.0	0.0
0	1	1	CATAGAAGTG	4110	#DIV/0!	1.0	#DIV/0!
1	1	0	CATAGATCAA	4111	1.0	0.0	0.0
0	0	2	CATAGGCGGT	4112	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	CATAGGTGAA	4113	1.0	0.0	0.0
1	1	0	CATAGTGTAT	4114	1.0	0.0	0.0

Table 5, cont.

1	0	1	CATCAAGGCG	4115	0.0	#DIV/0!	1.0
2	0	0	CATCACCAAT	4116	0.0	#DIV/0!	0.0
1	1	0	CATCACCATC	4117	1.0	0.0	0.0
1	0	1	CATCCTCTCG	4118	0.0	#DIV/0!	1.0
1	1	0	CATTAATATA	4119	1.0	0.0	0.0
1	0	1	CATTCAAAGG	4120	0.0	#DIV/0!	1.0
0	0	2	CATTCTGAAT	4121	#DIV/0!	#DIV/0!	#DIV/0!
1	0	1	CATTTTACAC	4122	0.0	#DIV/0!	1.0
1	1	0	CCAAAACTTT	4123	1.0	0.0	0.0
1	1	0	CCAACAGGGT	4124	1.0	0.0	0.0
1	0	1	CCAACGAAAA	4125	0.0	#DIV/0!	1.0
1	0	1	CCAACGTTTT	4126	0.0	#DIV/0!	1.0
1	0	1	CCAAGGGTGT	4127	0.0	#DIV/0!	1.0
0	0	2	CCAAGGGTTC	4128	#DIV/0!	#DIV/0!	#DIV/0!
1	0	1	CCAAGTCTCG	4129	0.0	#DIV/0!	1.0
1	1	0	CCACATTTCA	4130	1.0	0.0	0.0
2	0	0	CCACGGGTCT	4131	0.0	#DIV/0!	0.0
1	1	0	CCAGAAGAAA	4132	1.0	0.0	0.0
1	1	0	CCAGAATAGA	4133	1.0	0.0	0.0
0	1	1	CCAGACAGTG	4134	#DIV/0!	1.0	#DIV/0!
0	0	2	CCAGATATGC	4135	#DIV/0!	#DIV/0!	#DIV/0!
1	0	1	CCAGCGCGTA	4136	0.0	#DIV/0!	1.0
0	0	2	CCAGGTAATT	4137	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	CCATAAAAGC	4138	1.0	0.0	0.0
0	2	0	CCATATAGAC	4139	#DIV/0!	0.0	#DIV/0!
0	1	1	CCATCTTTTA	4140	#DIV/0!	1.0	#DIV/0!
1	1	0	CCATTAAATA	4141	1.0	0.0	0.0
2	0	0	CCATTAGAAT	4142	0.0	#DIV/0!	0.0

Table 5, cont.

2	0	0	CCATTCCAAC	4143	0.0	#DIV/0!	0.0
2	0	0	CCATTGTTCC	4144	0.0	#DIV/0!	0.0
0	2	0	CCATTTTGTT	4145	#DIV/0!	0.0	#DIV/0!
0	1	1	CCCAGATTTG	4146	#DIV/0!	1.0	#DIV/0!
0	2	0	CCCATAGTGG	4147	#DIV/0!	0.0	#DIV/0!
1	1	0	CCCCAAGTGG	4148	1.0	0.0	0.0
0	1	1	CCCGGATGTT	4149	#DIV/0!	1.0	#DIV/0!
1	1	0	CCCTAGCGCG	4150	1.0	0.0	0.0
0	1	1	CCGAATAAGG	4151	#DIV/0!	1.0	#DIV/0!
0	0	2	CCGACGGCAG	4152	#DIV/0!	#DIV/0!	#DIV/0!
2	0	0	CCGATGATGG	4153	0.0	#DIV/0!	0.0
0	2	0	CCGCCTTCCC	4154	#DIV/0!	0.0	#DIV/0!
1	0	1	CCGCGCTGCG	4155	0.0	#DIV/0!	1.0
0	2	0	CCGGAAGAGC	4156	#DIV/0!	0.0	#DIV/0!
0	1	1	CCGTGCGTGC	4157	#DIV/0!	1.0	#DIV/0!
2	0	0	CCGTTTCTTT	4158	0.0	#DIV/0!	0.0
2	0	0	CCTAAAAAAA	4159	0.0	#DIV/0!	0.0
2	0	0	CCTAAGCAGT	4160	0.0	#DIV/0!	0.0
2	0	0	CCTACTTGGC	4161	0.0	#DIV/0!	0.0
1	0	1	CCTATTAAGC	4162	0.0	#DIV/0!	1.0
1	1	0	CCTCATCAAG	4163	1.0	0.0	0.0
1	0	1	CCTCCAAAGC	4164	0.0	#DIV/0!	1.0
0	0	2	CCTCCAGAAG	4165	#DIV/0!	#DIV/0!	#DIV/0!
0	1	1	CCTCTGGATA	4166	#DIV/0!	1.0	#DIV/0!
1	1	0	CCTCTTAAAA	4167	1.0	0.0	0.0
0	1	1	CCTGTATTTT	4168	#DIV/0!	1.0	#DIV/0!
0	1	1	CCTGTTCGAG	4169	#DIV/0!	1.0	#DIV/0!
0	0	2	CCTTGAGAAT	4170	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

0	1	1	CCTTGTGGGA	4171	#DIV/0!	1.0	#DIV/0!
0	2	0	CCTTTTCTAT	4172	#DIV/0!	0.0	#DIV/0!
1	0	1	CCTTTTTCTA	4173	0.0	#DIV/0!	1.0
0	1	1	CGAAAAGGAA	4174	#DIV/0!	1.0	#DIV/0!
0	1	1	CGAAACCCAA	4175	#DIV/0!	1.0	#DIV/0!
2	0	0	CGAAAGCTTT	4176	0.0	#DIV/0!	0.0
0	1	1	CGAAGGTAAG	4177	#DIV/0!	1.0	#DIV/0!
0	1	1	CGACCTCACT	4178	#DIV/0!	1.0	#DIV/0!
1	1	0	CGACTATTGT	4179	1.0	0.0	0.0
0	0	2	CGAGGAATAT	4180	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	CGAGTATTCT	4181	1.0	0.0	0.0
2	0	0	CGATTGAATA	4182	0.0	#DIV/0!	0.0
1	1	0	CGATTGCAAA	4183	1.0	0.0	0.0
0	0	2	CGATTTGGTG	4184	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	CGATTTTCAG	4185	1.0	0.0	0.0
1	1	0	CGCACCCTGC	4186	1.0	0.0	0.0
0	1	1	CGCAGGTGAC	4187	#DIV/0!	1.0	#DIV/0!
1	0	1	CGCAGGTTAC	4188	0.0	#DIV/0!	1.0
0	0	2	CGCCCCTGAG	4189	#DIV/0!	.#DIV/0!	#DIV/0!
0	1	1	CGCCTATGGT	4190	#DIV/0!	1.0	#DIV/0!
0	0	2	CGCGAAACTT	4191	#DIV/0!	#DIV/0!	#DIV/0!
0	1	1	CGCTAAATAA	4192	#DIV/0!	1.0	#DIV/0!
0	1	1	CGCTACGTTT	4193	#DIV/0!	1.0	#DIV/0!
0	0	2	CGCTCAGTTA	4194	#DIV/0!	#DIV/0!	#DIV/0!
0	1	1	CGCTTCTCAC	4195	#DIV/0!	1.0	#DIV/0!
1	0	1	CGGACACTTT	4196	0.0	#DIV/0!	1.0
0	1	1	CGGCCATCCG	4197	#DIV/0!	1.0	#DIV/0!
0	1	1	CGGCCCACAA	4198	#DIV/0!	1.0	#DIV/0!

Table 5, cont.

1	0	1	CGGGATCAAG	4199	0.0	#DIV/0!	1.0
1	1	0	CGGGTATTTG	4200	1.0	0.0	0.0
0	2	0	CGGTAAAGTT	4201	#DIV/0!	0.0	#DIV/0!
0	2	0	CGGTCTCTCT	4202	#DIV/0!	0.0	#DIV/0!
0	1	1	CGGTGGACAG	4203	#DIV/0!	1.0	#DIV/0!
0	0	2	CGGTGTTAAC	4204	#DIV/0!	#DIV/0!	#DIV/0!
1	0	1	CGTCACTGTG	4205	0.0	#DIV/0!	1.0
1	0	1	CGTCAGCTGT	4206	0.0	#DIV/0!	1.0
2	0	0	CGTCGTGGTG	4207	0.0	#DIV/0!	0.0
0	1	1	CGTGAACTCA	4208	#DIV/0!	1.0	#DIV/0!
2	0	0	CGTGCAGTGC	4209	0.0	#DIV/0!	0.0
0	2	0	CGTGGTTTCA	4210	#DIV/0!	0.0	#DIV/0!
0	2	0	CGTTAATAGA	4211	#DIV/0!	0.0	#DIV/0!
0	1	1	CGTTTGTAAA	4212	#DIV/0!	1.0	#DIV/0!
1	1	0	CGTTTGTGTA	4213	1.0	0.0	0.0
1	0	1	CGTTTTCGTC	4214	0.0	#DIV/0!	1.0
0	0	2	CGTTTTTTCA	4215	#DIV/0!	#DIV/0!	#DIV/0!
0	1	1	CTAAACAAAG	4216	#DIV/0!	1.0	#DIV/0!
2	0	0	CTAAATCTTG	4217	0.0	#DIV/0!	0.0
1	0	1	CTAACTAAGC	4218	0.0	#DIV/0!	1.0
1	0	1	CTAAGAATGA	4219	0.0	#DIV/0!	1.0
1	1	0	CTAATACAAA	4220	1.0	0.0	0.0
1	0	1	CTAATATGTG	4221	0.0	#DIV/0!	1.0
1	0	1	CTAATCACTG	4222	0.0	#DIV/0!	1.0
1	1	0	CTAATCATTT	4223	1.0	0.0	0.0
0	1	1	CTACATAAAT	4224	#DIV/0!	1.0	#DIV/0!
0	1	1	CTACCACTAC	4225	#DIV/0!	1.0	#DIV/0!
0	0	2	CTAGCGTTTG	4226	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

1	1	0	CTATAAAACA	4227	1.0	0.0	0.0
0	1	1	CTATATATCA	4228	#DIV/0!	1.0	#DIV/0!
1	0	1	CTATCGGCCA	4229	0.0	#DIV/0!	1.0
1	0	1	CTATGCCAAA	4230	0.0	#DIV/0!	1.0
1	0	1	CTATTTATGA	4231	0.0	#DIV/0!	1.0
1	0	1	CTATTTCTCA	4232	0.0	#DIV/0!	1.0
0	1	1	CTCAAACTGC	4233	#DIV/0!	1.0	#DIV/0!
0	2	0	CTCAAATTGA	4234	#DIV/0!	0.0	#DIV/0!
1	0	1	CTCACGGGAA	4235	0.0	#DIV/0!	1.0
1	1	0	CTCAGCAGCA	4236	1.0	0.0	0.0
0	1	1	CTCAGGATGA	4237	#DIV/0!	1.0	#DIV/0!
0	1	1	CTCCAAAATG	4238	#DIV/0!	1.0	#DIV/0!
0	0	2	CTCCAGAAGA	4239	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	CTCCATACAC	4240	1.0	0.0	0.0
1	1	0	CTCGTTCACT	4241	1.0	0.0	0.0
1	1	0	CTCTAAATTT	4242	1.0	0.0	0.0
1	0	1	CTCTACTTAT	4243	0.0	#DIV/0!	1.0
0	1	1	CTCTATTATT	4244	#DIV/0!	1.0	#DIV/0!
1	1	0	CTCTATTGAT	4245	1.0	0.0	0.0
0	1	1	CTCTCCAATC	4246	#DIV/0!	1.0	#DIV/0!
0	0	2	CTCTCCCCCA	4247	#DIV/0!	#DIV/0!	#DIV/0!
0	1	1	CTCTCCTATT	4248	#DIV/0!	1.0	#DIV/0!
1	1	0	CTCTGTTGCG	4249	1.0	0.0	0.0
0	2	0	CTCTTAGTTG	4250	#DIV/0!	0.0	#DIV/0!
1	1	0	CTCTTGATTT	4251	1.0	0.0	0.0
0	0	2	CTCTTGCCAA	4252	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	CTGAAGGAAA	4253	1.0	0.0	0.0
1	0	1	CTGACACTAG	4254	0.0	#DIV/0!	1.0

Table 5, cont.

0	2	0	CTGATAAAGG	4255	#DIV/0!	0.0	#DIV/0!
1	0	1	CTGATATCTT	4256	0.0	#DIV/0!	1.0
0	2	0	CTGATCCGCG	4257	#DIV/0!	0.0	#DIV/0!
1	1	0	CTGCACGAAT	4258	1.0	0.0	0.0
0	0	2	CTGCCGAAGA	4259	#DIV/0!	#DIV/0!	#DIV/0!
0	2	0	CTGCCTTTCT	4260	#DIV/0!	0.0	#DIV/0!
2	0	0	CTGCGTTTAT	4261	0.0	#DIV/0!	0.0
1	1	0	CTGCTAAGCG	4262	1.0	0.0	0.0
1	0	1	CTGCTCCGGG	4263	0.0	#DIV/0!	1.0
0	1	1	CTGCTGTTCG	4264	#DIV/0!	1.0	#DIV/0!
0	0	2	CTGCTTCCTA	4265	#DIV/0!	#DIV/0!	#DIV/0!
0	0	2	CTGGATGATC	4266	#DIV/0!	#DIV/0!	#DIV/0!
0	0	2	CTGGCAACCA	4267	#DIV/0!	#DIV/0!	#DIV/0!
1	0	1	CTGGCAGAAT	4268	0.0	#DIV/0!	1.0
1	0	1	CTGGCAGACC	4269	0.0	#DIV/0!	1.0
0	2	0	CTGGCGAACG	4270	#DIV/0!	0.0	#DIV/0!
0	0	2	CTGGCTCTTT	4271	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	CTGGCTTGGC	4272	1.0	0.0	0.0
1	0	1	CTGGGTTCTA	4273	0.0	#DIV/0!	1.0
0	1	1	CTGGTCGCGA	4274	#DIV/0!	1.0	#DIV/0!
0	1	1	CTGTATAATA	4275	#DIV/0!	1.0	#DIV/0!
0	1	1	CTGTTATCAT	4276	#DIV/0!	1.0	#DIV/0!
0	1	1	CTGTTTTAGT	4277	#DIV/0!	1.0	#DIV/0!
0	2	0	CTTAAAAAAA	4278	#DIV/0!	0.0	#DIV/0!
1	0	1	CTTAACAAGA	4279	0.0	#DIV/0!	1.0
1	0	1	CTTAAGAACG	4280	0.0	#DIV/0!	1.0
0	0	2	CTTAATGTGT	4281	#DIV/0!	#DIV/0!	#DIV/0!
0	2	0	CTTAGGGAAC	4282	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

1	1	0	CTTATGGAGA	4283	1.0	0.0	0.0	
1	1	0	CTTATTTTTT	4284	1.0	0.0	0.0	
0	0	2	CTTCAGAATG	4285	#DIV/0!	#DIV/0!	#DIV/0!	
1	0	1	CTTCAGCCCA	4286	0.0	#DIV/0!	1.0	
1	1	0	CTTCCAAAAG	4287	1.0	0.0	0.0	
0	2	0	CTTCCCAAAT	4288	#DIV/0!	0.0	#DIV/0!	
0	0	2	CTTCGTTACC	4289	#DIV/0!	#DIV/0!	#DIV/0!	
0	2	0	CTTCTCCTTT	4290	#DIV/0!	0.0	#DIV/0!	
1	0	1	CTTCTTCCGC	4291	0.0	#DIV/0!	1.0	
1	1	0	CTTGAGCTAG	4292	1.0	0.0	0.0	
0	0	2	CTTGATATCT	4293	#DIV/0!	#DIV/0!	#DIV/0!	
1	0	1	CTTGATTAGT	4294	0.0	#DIV/0!	1.0	
0	1	1	CTTGCGTGGA	4295	#DIV/0!	1.0	#DIV/0!	
1	0	1	CTTGTCGCAC	4296	0.0	#DIV/0!	1.0	
1	0	1	CTTGTCTTTG	4297	0.0	#DIV/0!	1.0	
0	2	0	CTTGTTCAAA	4298	0.0	#DIV/0!	1.0	
1	1	0	CTTGTTGTTC	4299	#DIV/0!	0.0	#DIV/0!	
1	1	0	CTTTAGAAGA	4300	1.0	0.0	0.0	
2	0	0	CTTTCCTCTT	4301	1.0	0.0	0.0	
1	1	0	CTTTCGTTTT	4302	0.0	#DIV/0!	0.0	
1	1	0	CTTTTTCTGT	4303	1.0	0.0	0.0	
1	0	1	CTTTTTGACA	4304	1.0	0.0	0.0	
2	0	0	CTTTTTTGAG	4305	0.0	#DIV/0!	1.0	
1	0	1	GAAAAAAAGC	4306	0.0	#DIV/0!	0.0	
0	1	1	GAAAACACGT	4307	0.0	#DIV/0!	1.0	
0	1	1	GAAAACGTTC	4308	#DIV/0!	1.0	#DIV/0!	
0	2	0	GAAAATGAAA	4309	#DIV/0!	1.0	#DIV/0!	
			GAAAATTATT	4310	#DIV/0!	0.0	#DIV/0!	

Table 5, cont.

1	1	0	GAAAATTGGA	4311	1.0	0.0	0.0
1	0	1	GAAAATTGGG	4312	0.0	#DIV/0!	1.0
1	0	1	GAAACAAGGT	4313	0.0	#DIV/0!	1.0
0	2	0	GAAACGCTCT	4314	#DIV/0!	0.0	#DIV/0!
0	1	1	GAAACGTTGT	4315	#DIV/0!	1.0	#DIV/0!
0	1	1	GAAAGATAAT	4316	#DIV/0!	1.0	#DIV/0!
1	0	1	GAAAGCATAA	4317	0.0	#DIV/0!	1.0
1	0	1	GAAAGTTTGA	4318	0.0	#DIV/0!	1.0
2	0	0	GAAATGTGGA	4319	0.0	#DIV/0!	0.0
1	0	1	GAAATTGAAA	4320	0.0	#DIV/0!	1.0
0	2	0	GAACAAAACG	4321	#DIV/0!	0.0	#DIV/0!
1	0	1	GAACAATCTT	4322	0.0	#DIV/0!	1.0
1	0	1	GAACAATTCG	4323	0.0	#DIV/0!	1.0
0	2	0	GAACAGCAGA	4324	#DIV/0!	0.0	#DIV/0!
1	0	1	GAACAGCAGG	4325	0.0	#DIV/0!	1.0
0	0	2	GAACGAGAAG	4326	#DIV/0!	#DIV/0!	#DIV/0!
0	0	2	GAACGATCCT	4327	#DIV/0!	#DIV/0!	#DIV/0!
0	0	2	GAACGTATAT	4328	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	GAACTCCTGG	4329	1.0	0.0	0.0
1	0	1	GAACTGAAAA	4330	0.0	#DIV/0!	1.0
0	1	1	GAACTTGTTA	4331	#DIV/0!	1.0	#DIV/0!
2	0	0	GAAGAATCAG	4332	0.0	#DIV/0!	0.0
0	1	1	GAAGACAGCG	4333	#DIV/0!	1.0	#DIV/0!
0	1	1	GAAGCTCCCA	4334	#DIV/0!	1.0	#DIV/0!
0	1	1	GAAGGCGTTT	4335	#DIV/0!	1.0	#DIV/0!
1	0	1	GAAGGTAGAT	4336	0.0	#DIV/0!	1.0
1	0	1	GAAGGTTGGT	4337	0.0	#DIV/0!	1.0
0	0	2	GAAGTAGAAA	4338	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

2	0	0	GAAGTGATAT	4339	0.0	#DIV/0!	0.0
0	2	0	GAAGTTCAGT	4340	#DIV/0!	0.0	#DIV/0!
1	0	1	GAATAACGAA	4341	0.0	#DIV/0!	1.0
0	0	2	GAATAATGTC	4342	#DIV/0!	#DIV/0!	#DIV/0!
1	0	1	GAATGGGACT	4343	0.0	#DIV/0!	1.0
1	1	0	GAATGTTCAT	4344	1.0	0.0	0.0
0	0	2	GAATTGAGCA	4345	#DIV/0!	#DIV/0!	#DIV/0!
2	0	0	GAATTGTGGC	4346	0.0	#DIV/0!	0.0
1	1	0	GAATTTTAGA	4347	1.0	0.0	0.0
1	1	0	GACAAAGACA	4348	1.0	0.0	0.0
1	1	0	GACAACAAGA	4349	1.0	0.0	0.0
1	0	1	GACAACACCC	4350	0.0	#DIV/0!	1.0
0	0	2	GACAACGTGG	4351	#DIV/0!	#DIV/0!	#DIV/0!
0	2	0	GACAAGCTTG	4352	#DIV/0!	0.0	#DIV/0!
1	1	0	GACAAGGATG	4353	1.0	0.0	0.0
0	1	1	GACAATTTTT	4354	#DIV/0!	1.0	#DIV/0!
1	1	0	GACACCTATG	4355	1.0	0.0	0.0
0	0	2	GACACTTCTC	4356	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	GACATAGAAA	4357	1.0	0.0	0.0
0	1	1	GACATCAAGC	4358	#DIV/0!	1.0	#DIV/0!
0	1	1	GACATCAGTT	4359	#DIV/0!	1.0	#DIV/0!
1	1	0	GACATTTCCT	4360	1.0	0.0	0.0
2	0	0	GACATTTGAA	4361	0.0	#DIV/0!	0.0
1	0	1	GACCAATATC	4362	0.0	#DIV/0!	1.0
1	0	1	GACCCAGGCA	4363	0.0	#DIV/0!	1.0
0	1	1	GACGAATATT	4364	#DIV/0!	1.0	#DIV/0!
0	0	2	GACGCTTCAC	4365	#DIV/0!	#DIV/0!	#DIV/0!
0	2	0	GACGTCCAAC	4366	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	0	2	GACTAATGTA	4367	#DIV/0!	#DIV/0!	#DIV/0!
1	0	1	GACTATTTAG	4368	0.0	#DIV/0!	1.0
0	1	1	GACTCAAAAT	4369	#DIV/0!	1.0	#DIV/0!
1	0	1	GACTCGATAA	4370	0.0	#DIV/0!	1.0
0	2	0	GACTCGCTTT	4371	#DIV/0!	0.0	#DIV/0!
1	1	0	GACTCTATTG	4372	1.0	0.0	0.0
0	1	1	GACTGAAGCT	4373	#DIV/0!	1.0	#DIV/0!
0	0	2	GACTGATACG	4374	#DIV/0!	#DIV/0!	#DIV/0!
0	1	1	GACTTCATAA	4375	#DIV/0!	1.0	#DIV/0!
1	1	0	GACTTCTTTC	4376	1.0	0.0	0.0
1	1	0	GAGAAAGAAA	4377	1.0	0.0	0.0
0	1	1	GAGAACTCAC	4378	#DIV/0!	1.0	#DIV/0!
1	1	0	GAGAAGACAG	4379	1.0	0.0	0.0
2	0	0	GAGACTTTTA	4380	0.0	#DIV/0!	0.0
1	0	1	GAGAGATGAA	4381	0.0	#DIV/0!	1.0
0	1	1	GAGAGCAACG	4382	#DIV/0!	1.0	#DIV/0!
1	1	0	GAGAGTTCGA	4383	1.0	0.0	0.0
1	1	0	GAGATGTTCC	4384	1.0	0.0	0.0
0	1	1	GAGCAGGTGG	4385	#DIV/0!	1.0	#DIV/0!
1	0	1	GAGCTCCGAT	4386	0.0	#DIV/0!	1.0
1	0	1	GAGGATAGCC	4387	0.0	#DIV/0!	1.0
1	1	0	GAGGATAGCG	4388	1.0	0.0	0.0
0	1	1	GAGGCAAAAA	4389	#DIV/0!	1.0	#DIV/0!
1	0	1	GAGGCGAGAT	4390	0.0	#DIV/0!	1.0
1	1	0	GAGGGCTCAG	4391	1.0	0.0	0.0
1	1	0	GAGGTAAAGG	4392	1.0	0.0	0.0
1	0	1	GAGGTCAAGA	4393	0.0	#DIV/0!	1.0
2	0	0	GAGGTTAACC	4394	0.0	#DIV/0!	0.0

Table 5, cont.

0	1	1	GAGTGGCCTT	4395	#DIV/0!	1.0	#DIV/0!
0	1	1	GAGTGGGTTA	4396	#DIV/0!	1.0	#DIV/0!
1	1	0	GAGTGTTACA	4397	1.0	0.0	0.0
1	0	1	GAGTTAGTGT	4398	0.0	#DIV/0!	1.0
0	1	1	GAGTTGATAA	4399	#DIV/0!	1.0	#DIV/0!
0	2	0	GAGTTTGCTA	4400	#DIV/0!	0.0	#DIV/0!
2	0	0	GATAAAAAAG	4401	0.0	#DIV/0!	0.0
1	1	0	GATAACTGAA	4402	1.0	0.0	0.0
2	0	0	GATAAGCCCG	4403	0.0	#DIV/0!	0.0
1	0	1	GATAATCGCA	4404	0.0	#DIV/0!	1.0
0	0	2	GATACCTTCA	4405	#DIV/0!	#DIV/0!	#DIV/0!
2	0	0	GATATATCAT	4406	0.0	#DIV/0!	0.0
1	1	0	GATATGCCGA	4407	1.0	0.0	0.0
0	1	1	GATATTTTTT	4408	#DIV/0!	1.0	#DIV/0!
1	1	0	GATCCAGATG	4409	1.0	0.0	0.0
1	0	1	GATCGCCGCT	4410	0.0	#DIV/0!	1.0
0	2	0	GATCTCAATT	4411	#DIV/0!	0.0	#DIV/0!
1	1	0	GATGAAAACA	4412	1.0	0.0	0.0
1	0	1	GATGAAGACG	4413	0.0	#DIV/0!	1.0
1	1	0	GATGAATACC	4414	1.0	0.0	0.0
0	0	2	GATGATGATG	4415	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	GATGCAAATC	4416	1.0	0.0	0.0
0	0	2	GATGGAATAG	4417	#DIV/0!	#DIV/0!	#DIV/0!
0	1	1	GATGTCCAGA	4418	#DIV/0!	1.0	#DIV/0!
2	0	0	GATTACTTCA	4419	0.0	#DIV/0!	0.0
1	0	1	GATTCAAAAA	4420	0.0	#DIV/0!	1.0
0	0	2	GATTCGATAC	4421	#DIV/0!	#DIV/0!	#DIV/0!
1	0	1	GATTCTAAAA	4422	0.0	#DIV/0!	1.0

Table 5, cont.

0	2	0	GATTCTGACT	4423	#DIV/0!	0.0	#DIV/0!
1	0	1	GATTGCGATC	4424	0.0	#DIV/0!	1.0
0	1	1	GATTGGAAAT	4425	#DIV/0!	1.0	#DIV/0!
1	1	0	GATTGGTGGT	4426	1.0	0.0	0.0
1	1	0	GATTGTGGAT	4427	1.0	0.0	0.0
1	0	1	GATTTGGCGC	4428	0.0	#DIV/0!	1.0
1	0	1	GCAAACCCAA	4429	0.0	#DIV/0!	1.0
0	1	1	GCAAACCCAC	4430	#DIV/0!	1.0	#DIV/0!
2	0	0	GCAAAGAATA	4431	0.0	#DIV/0!	0.0
1	0	1	GCAAATGATT	4432	0.0	#DIV/0!	1.0
0	1	1	GCAACTGCGG	4433	#DIV/0!	1.0	#DIV/0!
1	0	1	GCAAGAGAAG	4434	0.0	#DIV/0!	1.0
0	2	0	GCAAGTTAGC	4435	#DIV/0!	0.0	#DIV/0!
2	0	0	GCAATACTAT	4436	0.0	#DIV/0!	0.0
0	0	2	GCAATGACAC	4437	#DIV/0!	#DIV/0!	#DIV/0!
0	2	0	GCACATTCGA	4438	#DIV/0!	0.0	#DIV/0!
1	1	0	GCACGAAGTA	4439	1.0	0.0	0.0
1	0	1	GCACTTCAAC	4440	0.0	#DIV/0!	1.0
2	0	0	GCAGATAGCG	4441	0.0	#DIV/0!	0.0
2	0	0	GCAGCCATTG	4442	0.0	#DIV/0!	0.0
0	2	0	GCAGTTGCCT	4443	#DIV/0!	0.0	#DIV/0!
1	1	0	GCAGTTGCTT	4444	1.0	0.0	0.0
0	1	1	GCATAAAACG	4445	#DIV/0!	1.0	#DIV/0!
0	2	0	GCATAACGAG	4446	#DIV/0!	0.0	#DIV/0!
1	1	0	GCATCAACAA	4447	1.0	0.0	0.0
0	0	2	GCATCATTGA	4448	#DIV/0!	#DIV/0!	#DIV/0!
0	0	2	GCATCCAAGA	4449	#DIV/0!	#DIV/0!	#DIV/0!
0	0	2	GCATCTCTAA	4450	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

0	1	1	GCATTCCTTG	4451	#DIV/0!	1.0	#DIV/0!
1	0	1	GCATTTGATT	4452	0.0	#DIV/0!	1.0
2	0	0	GCATTTTATC	4453	0.0	#DIV/0!	0.0
2	0	0	GCCAAACTGA	4454	0.0	#DIV/0!	0.0
0	1	1	GCCAAATCAT	4455	#DIV/0!	1.0	#DIV/0!
0	1	1	GCCAAATGTT	4456	#DIV/0!	1.0	#DIV/0!
0	1	1	GCCAACGCCG	4457	#DIV/0!	1.0	#DIV/0!
1	0	1	GCCAAGAACT	4458	0.0	#DIV/0!	1.0
2	0	0	GCCAATCACA	4459	0.0	#DIV/0!	0.0
1	1	0	GCCAGAAACG	4460	1.0	0.0	0.0
0	1	1	GCCAGATTGG	4461	#DIV/0!	1.0	#DIV/0!
0	1	1	GCCAGATTTA	4462	#DIV/0!	1.0	#DIV/0!
0	1	1	GCCAGTGGCG	4463	#DIV/0!	1.0	#DIV/0!
2	0	0	GCCATTTTTG	4464	0.0	#DIV/0!	0.0
1	1	0	GCCCAACTCA	4465	1.0	0.0	0.0
0	2	0	GCCCTTCCTA	4466	#DIV/0!	0.0	#DIV/0!
0	1	1	GCCGAATTCT	4467	#DIV/0!	1.0	#DIV/0!
2	0	0	GCCGATGTGC	4468	0.0	#DIV/0!	0.0
0	0	2	GCCGGTTCAC	4469	#DIV/0!	#DIV/0!	#DIV/0!
0	1	1	GCCTAGTAAT	4470	#DIV/0!	1.0	#DIV/0!
1	1	0	GCCTGAAATG	4471	1.0	0.0	0.0
1	0	1	GCCTGCAAAT	4472	0.0	#DIV/0!	1.0
0	2	0	GCCTGGGAAG	4473	#DIV/0!	0.0	#DIV/0!
1	0	1	GCCTGGGATA	4474	0.0	#DIV/0!	1.0
0	2	0	GCCTTGGGTA	4475	#DIV/0!	0.0	#DIV/0!
2	0	0	GCCTTTTTTT	4476	0.0	#DIV/0!	0.0
2	0	0	GCGAATAGTG	4477	0.0	#DIV/0!	0.0
0	0	2	GCGATACTAC	4478	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

1	1	0	GCGATCAAAA	4479	1.0	0.0	0.0
2	0	0	GCGATCTCTT	4480	0.0	#DIV/0!	0.0
1	0	1	GCGCCTCTCA	4481	0.0	#DIV/0!	1.0
1	0	1	GCGCTACTGC	4482	0.0	#DIV/0!	1.0
0	0	2	GCGCTCAAAA	4483	#DIV/0!	#DIV/0!	#DIV/0!
0	1	1	GCGGCGGGTG	4484	#DIV/0!	1.0	#DIV/0!
2	0	0	GCGTACCGGC	4485	0.0	#DIV/0!	0.0
1	0	1	GCGTCCTCCC	4486	0.0	#DIV/0!	1.0
1	0	1	GCGTCTTTTA	4487	0.0	#DIV/0!	1.0
1	1	0	GCTAATACAT	4488	1.0	0.0	0.0
0	1	1	GCTACAGCAG	4489	#DIV/0!	1.0	#DIV/0!
0	0	2	GCTACCCAAT	4490	#DIV/0!	#DIV/0!	#DIV/0!
0	1	1	GCTACCTAAA	4491	#DIV/0!	1.0	#DIV/0!
1	0	1	GCTACCTACG	4492	0.0	#DIV/0!	1.0
0	1	1	GCTACTATTA	4493	#DIV/0!	1.0	#DIV/0!
0	2	0	GCTCAAATTG	4494	#DIV/0!	0.0	#DIV/0!
0	0	2	GCTCAATCCA	4495	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	GCTCTAAAAA	4496	1.0	0.0	0.0
1	0	1	GCTGAGCCCG	4497	0.0	#DIV/0!	1.0
1	1	0	GCTGCTACGC	4498	1.0	0.0	0.0
0	0	2	GCTGCTAGGC	4499	#DIV/0!	#DIV/0!	#DIV/0!
0	2	0	GCTGCTCAAT	4500	#DIV/0!	0.0	#DIV/0!
1	0	1	GCTGCTCAGA	4501	0.0	#DIV/0!	1.0
0	0	2	GCTGGCTAAG	4502	#DIV/0!	#DIV/0!	#DIV/0!
0	2	0	GCTGGTAGTA	4503	#DIV/0!	0.0	#DIV/0!
1	1	0	GCTGTATTCT	4504	1.0	0.0	0.0
2	0	0	GCTGTTTTCA	4505	0.0	#DIV/0!	0.0
2	0	0	GCTTAAAAAA	4506	0.0	#DIV/0!	0.0

Table 5, cont.

0	1	1	GCTTAAAAAT	4507	#DIV/0!	1.0	#DIV/0!
0	0	2	GCTTCGAACA	4508	#DIV/0!	#DIV/0!	#DIV/0!
0	0	2	GCTTCTTATA	4509	#DIV/0!	#DIV/0!	#DIV/0!
0	2	0	GCTTGGCGGT	4510	#DIV/0!	0.0	#DIV/0!
0	2	0	GCTTGTACTT	4511	#DIV/0!	0.0	#DIV/0!
0	2	0	GCTTTCCTTT	4512	#DIV/0!	0.0	#DIV/0!
0	1	1	GCTTTGCTAA	4513	#DIV/0!	1.0	#DIV/0!
1	1	0	GCTTTGTTGT	4514	1.0	0.0	0.0
0	1	1	GCTTTTTGCA	4515	#DIV/0!	1.0	#DIV/0!
1	0	1	GGAAAAATTA	4516	0.0	#DIV/0!	1.0
0	1	1	GGAAAATGCT	4517	#DIV/0!	1.0	#DIV/0!
1	1	0	GGAAAGCCCA	4518	1.0	0.0	0.0
0	0	2	GGAACACTTC	4519	#DIV/0!	#DIV/0!	#DIV/0!
1	0	1	GGAACCTTCG	4520	0.0	#DIV/0!	1.0
0	0	2	GGAATCCATA	4521	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	GGAATCTGGT	4522	1.0	0.0	0.0
0	2	0	GGAATGTTGA	4523	#DIV/0!	0.0	#DIV/0!
2	0	0	GGAATTAAGA	4524	0.0	#DIV/0!	0.0
2	0	0	GGACCCCACT	4525	0.0	#DIV/0!	0.0
1	0	1	GGACCTTACT	4526	0.0	#DIV/0!	1.0
1	0	1	GGACTCATAT	4527	0.0	#DIV/0!	1.0
0	2	0	GGAGCAGTTA	4528	#DIV/0!	0.0	#DIV/0!
0	2	0	GGAGCCCTGA	4529	#DIV/0!	0.0	#DIV/0!
1	0	1	GGAGCGTATA	4530	0.0	#DIV/0!	1.0
1	1	0	GGAGGAAACC	4531	1.0	0.0	0.0
0	2	0	GGAGGATGGG	4532	#DIV/0!	0.0	#DIV/0!
0	1	1	GGAGGGAACG	4533	#DIV/0!	1.0	#DIV/0!
1	0	1	GGAGTGCAAC	4534	0.0	#DIV/0!	1.0

Table 5, cont.

1	0	1	GGAGTTAACG	4535	0.0	#DIV/0!	1.0	
0	1	1	GGATAGCACT	4536	#DIV/0!	1.0	#DIV/0!	
1	0	1	GGATGATGGA	4537	0.0	#DIV/0!	1.0	
0	0	2	GGATGGCGAC	4538	#DIV/0!	#DIV/0!	#DIV/0!	
1	1	0	GGATGGTAAG	4539	1.0	0.0	0.0	
1	0	1	GGATTTGGAC	4540	0.0	#DIV/0!	1.0	
0	1	1	GGCAAATCCA	4541	#DIV/0!	1.0	#DIV/0!	
0	0	2	GGCAACGGTG	4542	#DIV/0!	#DIV/0!	#DIV/0!	
0	1	1	GGCAATAGCC	4543	#DIV/0!	1.0	#DIV/0!	
0	2	0	GGCACCTGTC	4544	#DIV/0!	0.0	#DIV/0!	
2	0	0	GGCAGATGAT	4545	0.0	#DIV/0!	0.0	
0	0	2	GGCAGATTGG	4546	#DIV/0!	#DIV/0!	#DIV/0!	
1	0	1	GGCATAAACG	4547	0.0	#DIV/0!	1.0	
0	1	1	GGCATCAGGA	4548	#DIV/0!	1.0	#DIV/0!	
1	1	0	GGCCCATAGA	4549	1.0	0.0	0.0	
2	0	0	GGCCTACCAC	4550	0.0	#DIV/0!	0.0	
1	0	1	GGCGATTGAT	4551	0.0	#DIV/0!	1.0	
2	0	0	GGCGCTAAGA	4552	0.0	#DIV/0!	0.0	
1	0	1	GGCGCTAATT	4553	0.0	#DIV/0!	1.0	
0	0	2	GGCGGTGGTG	4554	#DIV/0!	#DIV/0!	#DIV/0!	
0	0	2	GGCGTAGAAT	4555	#DIV/0!	#DIV/0!	#DIV/0!	
0	2	0	GGCGTTGACA	4556	#DIV/0!	0.0	#DIV/0!	
0	1	1	GGCTCTCCCC	4557	#DIV/0!	1.0	#DIV/0!	
1	0	1	GGCTGAGATA	4558	0.0	#DIV/0!	1.0	
1	1	0	GGCTGTTTGG	4559	1.0	0.0	0.0	
0	1	1	GGCTTCTCTA	4560	#DIV/0!	1.0	#DIV/0!	
0	1	1	GGCTTTACAA	4561	#DIV/0!	1.0	#DIV/0!	
0	1	1	GGCTTTGGTT	4562	#DIV/0!	1.0	#DIV/0!	

Table 5, cont.

0	0	2	GGGACTGATG	4563	#DIV/0!	#DIV/0!	#DIV/0!
2	0	0	GGGAGAAATC	4564	0.0	#DIV/0!	0.0
1	1	0	GGGAGCTCAA	4565	1.0	0.0	0.0
0	0	2	GGGAGGTCAT	4566	#DIV/0!	#DIV/0!	#DIV/0!
0	0	2	GGGATGATGA	4567	#DIV/0!	#DIV/0!	#DIV/0!
0	2	0	GGGATTCTTG	4568	#DIV/0!	0.0	#DIV/0!
1	0	1	GGGCCAACCC	4569	0.0	#DIV/0!	1.0
0	0	2	GGGCCAGCTT	4570	#DIV/0!	#DIV/0!	#DIV/0!
0	1	1	GGGCTCTGAA	4571	#DIV/0!	1.0	#DIV/0!
2	0	0	GGGGTGCTAG	4572	0.0	#DIV/0!	0.0
1	1	0	GGGGTTAACG	4573	1.0	0.0	0.0
0	0	2	GGGTGGTATT	4574	#DIV/0!	#DIV/0!	#DIV/0!
1	0	1	GGGTGTTACC	4575	0.0	#DIV/0!	1.0
1	1	0	GGGTTCTCTA	4576	1.0	0.0	0.0
0	2	0	GGGTTGACAA	4577	#DIV/0!	0.0	#DIV/0!
0	0	2	GGTAAAACAA	4578	#DIV/0!	#DIV/0!	#DIV/0!
0	1	1	GGTAAATACC	4579	#DIV/0!	1.0	#DIV/0!
0	0	2	GGTAACTCCA	4580	#DIV/0!	#DIV/0!	#DIV/0!
1	0	1	GGTACGCAAG	4581	0.0	#DIV/0!	1.0
0	1	1	GGTCAAGAAT	4582	#DIV/0!	1.0	#DIV/0!
1	0	1	GGTCACTCCT	4583	0.0	#DIV/0!	1.0
0	1	1	GGTCCAGATG	4584	#DIV/0!	1.0	#DIV/0!
0	1	1	GGTCCAGCCT	4585	#DIV/0!	1.0	#DIV/0!
0	1	1	GGTCCAGTTA	4586	#DIV/0!	1.0	#DIV/0!
1	0	1	GGTCCTCTCT	4587	0.0	#DIV/0!	1.0
1	1	0	GGTCTCGGTT	4588	1.0	0.0	0.0
0	2	0	GGTGAAGAAG	4589	#DIV/0!	0.0	#DIV/0!
1	0	1	GGTGAGGATT	4590	0.0	#DIV/0!	1.0

Table 5, cont.

2	0	0	GGTGATAACG	4591	0.0	#DIV/0!	0.0
0	1	1	GGTGCTAACA	4592	#DIV/0!	1.0	#DIV/0!
0	0	2	GGTGCTAAGT	4593	#DIV/0!	#DIV/0!	#DIV/0!
1	0	1	GGTGCTGAGA	4594	0.0	#DIV/0!	1.0
0	1	1	GGTGGTAACG	4595	#DIV/0!	1.0	#DIV/0!
0	2	0	GGTGTACACG	4596	#DIV/0!	0.0	#DIV/0!
1	0	1	GGTGTGGACT	4597	0.0	#DIV/0!	1.0
1	1	0	GGTGTTAACA	4598	1.0	0.0	0.0
2	0	0	GGTGTTCACG	4599	0.0	#DIV/0!	0.0
0	0	2	GGTGTTTAAC	4600	#DIV/0!	#DIV/0!	#DIV/0!
0	0	2	GGTTAAACGT	4601	#DIV/0!	#DIV/0!	#DIV/0!
2	0	0	GGTTCCACGA	4602	0.0	#DIV/0!	0.0
0	0	2	GGTTCGGTTA	4603	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	GGTTCTAATT	4604	1.0	0.0	0.0
1	1	0	GGTTCTGGTT	4605	1.0	0.0	0.0
0	2	0	GGTTTAGGTT	4606	#DIV/0!	0.0	#DIV/0!
0	2	0	GGTTTGTATT	4607	#DIV/0!	0.0	#DIV/0!
0	1	1	GGTTTTGATT	4608	#DIV/0!	1.0	#DIV/0!
1	1	0	GTAAAAAAAA	4609	1.0	0.0	0.0
2	0	0	GTAAAGACCT	4610	0.0	#DIV/0!	0.0
0	0	2	GTAACGATTG	4611	#DIV/0!	#DIV/0!	#DIV/0!
0	2	0	GTAACGTACA	4612	#DIV/0!	0.0	#DIV/0!
1	0	1	GTAACTGGAC	4613	0.0	#DIV/0!	1.0
1	0	1	GTAAGAAATA	4614	0.0	#DIV/0!	1.0
0	0	2	GTAAGGACGC	4615	#DIV/0!	#DIV/0!	#DIV/0!
0	1	1	GTACAAAAAA	4616	#DIV/0!	1.0	#DIV/0!
0	2	0	GTACAAGCAA	4617	#DIV/0!	0.0	#DIV/0!
1	0	1	GTACACCTGA	4618	0.0	#DIV/0!	1.0

Table 5, cont.

0	0	2	GTACACCTGG	4619	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	GTACAGGGCT	4620	1.0	0.0	0.0
2	0	0	GTACCAACTC	4621	0.0	#DIV/0!	0.0
0	2	0	GTACCCGAAA	4622	#DIV/0!	0.0	#DIV/0!
0	2	0	GTACCCTTAT	4623	#DIV/0!	0.0	#DIV/0!
2	0	0	GTACGGTTGT	4624	0.0	#DIV/0!	0.0
1	1	0	GTACTCCTCT	4625	1.0	0.0	0.0
1	0	1	GTACTTCTAG	4626	0.0	#DIV/0!	1.0
1	1	0	GTACTTGTAC	4627	1.0	0.0	0.0
1	0	1	GTACTTTCGG	4628	0.0	#DIV/0!	1.0
1	0	1	GTAGAACACC	4629	0.0	#DIV/0!	1.0
2	0	0	GTAGCGATCG	4631	0.0	#DIV/0!	0.0
1	0	1	GTAGCGGGTG	4632	0.0	#DIV/0!	1.0
0	2	0	GTAGTTTGTC	4633	#DIV/0!	0.0	#DIV/0!
0	2	0	GTATATATGC	4634	#DIV/0!	0.0	#DIV/0!
0	0	2	GTATGGCCAC	4635	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	GTATTCTAGT	4636	1.0	0.0	0.0
0	0	2	GTATTGATTT	4637	#DIV/0!	#DIV/0!	#DIV/0!
0	2	0	GTCAAAAAAA	4638	#DIV/0!	0.0	#DIV/0!
0	2	0	GTCAAGCAAT	4639	#DIV/0!	0.0	#DIV/0!
1	1	0	GTCAATGGCT	4640	1.0	0.0	0.0
0	1	1	GTCACGTTGG	4641	#DIV/0!	1.0	#DIV/0!
0	1	1	GTCACTGGTA	4642	#DIV/0!	1.0	#DIV/0!
1	1	0	GTCATATGGT	4643	1.0	0.0	0.0
0	2	0	GTCATCACTT	4644	#DIV/0!	0.0	#DIV/0!
1	0	1	GTCCCTGAAA	4645	0.0	#DIV/0!	1.0
2	0	0	GTCCCTTTAG	4646	0.0	#DIV/0!	0.0

Table 5, cont.

2	0	0	GTCCTCCAGA	4647	0.0	#DIV/0!	0.0
1	0	1	GTCGCCTTTA	4648	0.0	#DIV/0!	1.0
0	1	1	GTCGGTATGG	4649	#DIV/0!	1.0	#DIV/0!
0	1	1	GTCGTCCTAC	4650	#DIV/0!	1.0	#DIV/0!
0	0	2	GTCGTTTATT	4651	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	GTCTATTCTT	4652	1.0	0.0	0.0
1	0	1	GTCTGCACCT	4653	0.0	#DIV/0!	1.0
2	0	0	GTGAAAATAG	4654	0.0	#DIV/0!	0.0
1	0	1	GTGAACAACG	4655	0.0	#DIV/0!	1.0
0	1	1	GTGAACAGTC	4656	#DIV/0!	1.0	#DIV/0!
1	0	1	GTGAAGCTCG	4657	0.0	#DIV/0!	1.0
0	1	1	GTGAAGGCGC	4658	#DIV/0!	1.0	#DIV/0!
1	1	0	GTGAAGGTTC	4659	1.0	0.0	0.0
0	0	2	GTGACAACGT	4660	#DIV/0!	#DIV/0!	#DIV/0!
0	2	0	GTGACAGATG	4661	#DIV/0!	0.0	#DIV/0!
0	0	2	GTGACGCTCT	4662	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	GTGATAAAGC	4663	1.0	0.0	0.0
0	0	2	GTGATACCAG	4664	#DIV/0!	#DIV/0!	#DIV/0!
0	0	2	GTGATATCAG	4665	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	GTGATGATGA	4666	1.0	0.0	0.0
1	1	0	GTGATTAGGC	4667	1.0	0.0	0.0
1	1	0	GTGATTTGAC	4668	1.0	0.0	0.0
1	0	1	GTGCTCAAAA	4669	0.0	#DIV/0!	1.0
0	1	1	GTGCTGCATA	4670	#DIV/0!	1.0	#DIV/0!
0	1	1	GTGGAACATA	4671	#DIV/0!	1.0	#DIV/0!
0	0	2	GTGGAGCCGG	4672	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	GTGGATTCTT	4673	1.0	0.0	0.0
0	1	1	GTGGCGGACA	4674	#DIV/0!	1.0	#DIV/0!

Table 5, cont.

0	0	2	GTGGGACAAA	4675	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	GTGGGCTGCT	4676	1.0	0.0	0.0
0	1	1	GTGGGTATTG	4677	#DIV/0!	1.0	#DIV/0!
1	0	1	GTGGTCCTTT	4678	0.0	#DIV/0!	1.0
1	0	1	GTGGTTCAAT	4679	0.0	#DIV/0!	1.0
0	0	2	GTGTCATTGG	4680	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	GTGTGTTCTA	4681	1.0	0.0	0.0
2	0	0	GTGTTCTTAC	4682	0.0	#DIV/0!	0.0
0	1	1	GTGTTGAAAA	4683	#DIV/0!	1.0	#DIV/0!
2	0	0	GTGTTGAGAA	4684	0.0	#DIV/0!	0.0
1	0	1	GTGTTGGTGC	4685	0.0	#DIV/0!	1.0
2	0	0	GTTAACGATA	4686	0.0	#DIV/0!	0.0
0	2	0	GTTAAGCCAA	4687	#DIV/0!	0.0	#DIV/0!
2	0	0	GTTAATGATG	4688	0.0	#DIV/0!	0.0
1	1	0	GTTACAAGAA	4689	1.0	0.0	0.0
0	1	1	GTTACATCCG	4690	#DIV/0!	1.0	#DIV/0!
0	2	0	GTTACCTACC	4691	#DIV/0!	0.0	#DIV/0!
1	0	1	GTTACGGCCA	4692	0.0	#DIV/0!	1.0
0	2	0	GTTAGAAGAG	4693	#DIV/0!	0.0	#DIV/0!
1	0	1	GTTAGATCCC	4694	0.0	#DIV/0!	1.0
0	2	0	GTTATCAGTG	4695	#DIV/0!	0.0	#DIV/0!
2	0	0	GTTATGGTCA	4696	0.0	#DIV/0!	0.0
0	2	0	GTTATGTATT	4697	#DIV/0!	0.0	#DIV/0!
0	0	2	GTTATTTATA	4698	#DIV/0!	#DIV/0!	#DIV/0!
0	0	2	GTTATTTATC	4699	#DIV/0!	#DIV/0!	#DIV/0!
0	1	1	GTTCAAAAAC	4700	#DIV/0!	1.0	#DIV/0!
2	0	0	GTTCAACGGC	4701	0.0	#DIV/0!	0.0
1	1	0	GTTCAAGAAC	4702	1.0	0.0	0.0

Table 5, cont.

1	0	1	GTTCCCAGAC	4703	0.0	#DIV/0!	1.0
0	1	1	GTTCGGGTCA	4704	#DIV/0!	1.0	#DIV/0!
1	1	0	GTTCTAAATA	4705	1.0	0.0	0.0
0	0	2	GTTCTCTAGC	4706	#DIV/0!	#DIV/0!	#DIV/0!
0	2	0	GTTCTCTTCT	4707	#DIV/0!	0.0	#DIV/0!
2	0	0	GTTCTTATTT	4708	0.0	#DIV/0!	0.0
0	2	0	GTTGAGATTT	4709	#DIV/0!	0.0	#DIV/0!
0	0	2	GTTGATGCTA	4710	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	GTTGCGGTCC	4711	1.0	0.0	0.0
0	2	0	GTTGGATAAA	4712	#DIV/0!	0.0	#DIV/0!
1	1	0	GTTGTCTTCA	4713	1.0	0.0	0.0
0	1	1	GTTGTGAGCA	4714	#DIV/0!	1.0	#DIV/0!
1	1	0	GTTGTGGGAG	4715	1.0	0.0	0.0
2	0	0	GTTGTTACCG	4716	0.0	#DIV/0!	0.0
2	0	0	GTTTAAAAAA	4717	0.0	#DIV/0!	0.0
0	2	0	GTTTACAAAA	4718	#DIV/0!	0.0	#DIV/0!
0	0	2	GTTTACCCAA	4719	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	GTTTCAGCGG	4720	1.0	0.0	0.0
1	0	1	GTTTCCAAAA	4721	0.0	#DIV/0!	1.0
1	0	1	GTTTCCTTTT	4722	0.0	#DIV/0!	1.0
1	1	0	GTTTGAAAAA	4723	1.0	0.0	0.0
1	0	1	GTTTGACCTA	4724	0.0	#DIV/0!	1.0
1	1	0	GTTTGATTAC	4725	1.0	0.0	0.0
1	1	0	GTTTGCAATC	4726	1.0	0.0	0.0
1	1	0	GTTTGTAGAC	4727	1.0	0.0	0.0
0	0	2	GTTTGTGAAC	4728	#DIV/0!	#DIV/0!	#DIV/0!
1	0	1	GTTTTCACCA	4729	0.0	#DIV/0!	1.0
2	0	0	GTTTTCATTG	4730	0.0	#DIV/0!	0.0

Table 5, cont.

1	1	0	GTTTTCTTCC	4731	1.0	0.0	0.0
2	0	0	GTTTTCTTTC	4732	0.0	#DIV/0!	0.0
1	0	1	TAAAGTCCAG	4733	0.0	#DIV/0!	1.0
0	2	0	TAAATAAAAA	4734	#DIV/0!	0.0	#DIV/0!
0	2	0	TAAATAAGAT	4735	#DIV/0!	0.0	#DIV/0!
0	2	0	TAAATAATAA	4736	#DIV/0!	0.0	#DIV/0!
1	0	1	TAAATATAAA	4737	0.0	#DIV/0!	1.0
0	1	1	TAAATATGTT	4738	#DIV/0!	1.0	#DIV/0!
1	0	1	TAAATCAGTA	4739	0.0	#DIV/0!	1.0
1	1	0	TAAATGGTCT	4740	1.0	0.0	0.0
1	1	0	TAAATTTTAC	4741	1.0	0.0	0.0
0	2	0	TAACAAAGAG	4742	#DIV/0!	0.0	#DIV/0!
1	1	0	TAACAACTTA	4743	1.0	0.0	0.0
2	0	0	TAACTAAGAC	4744	0.0	#DIV/0!	0.0
1	0	1	TAACTTCGTT	4745	0.0	#DIV/0!	1.0
2	0	0	TAAGCAGATT	4746	0.0	#DIV/0!	0.0
1	0	1	TAAGCTTTTT	4747	0.0	#DIV/0!	1.0
0	2	0	TAATCTTTGA	4748	#DIV/0!	0.0	#DIV/0!
1	0	1	TAATGCTAAA	4749	0.0	#DIV/0!	1.0
1	1	0	TAATGCTAAC	4750	1.0	0.0	0.0
0	2	0	TAATTGAAAA	4751	#DIV/0!	0.0	#DIV/0!
2	0	0	TAATTGATAG	4752	0.0	#DIV/0!	0.0
0	2	0	TAATTGTCGG	4753	#DIV/0!	0.0	#DIV/0!
1	1	0	TAATTTACGC	4754	1.0	0.0	0.0
2	0	0	TAATTTAGAT	4755	0.0	#DIV/0!	0.0
1	0	1	TAATTTTCAT	4756	0.0	#DIV/0!	1.0
1	1	0	TAATTTTTGA	4757	1.0	0.0	0.0
0	1	1	TACAAAAAAA	4758	#DIV/0!	1.0	#DIV/0!

Table 5, cont.

0	2	0	TACAACAATT	4759	#DIV/0!	0.0	#DIV/0!
0	2	0	TACAATATAT	4760	#DIV/0!	0.0	#DIV/0!
0	2	0	TACAATCTTA	4761	#DIV/0!	0.0	#DIV/0!
0	1	1	TACACAAGTG	4762	#DIV/0!	1.0	#DIV/0!
0	1	1	TACACCCAGC	4763	#DIV/0!	1.0	#DIV/0!
0	2	0	TACACGCGCG	4764	#DIV/0!	0.0	#DIV/0!
1	0	1	TACAGCTGTG	4765	0.0	#DIV/0!	1.0
0	2	0	TACATACCTG	4766	#DIV/0!	0.0	#DIV/0!
1	0	1	TACATTCTAA	4767	0.0	#DIV/0!	1.0
2	0	0	TACATTTGCT	4768	0.0	#DIV/0!	0.0
1	1	0	TACCAACTCT	4769	1.0	0.0	0.0
1	0	1	TACCACCCCT	4770	0.0	#DIV/0!	1.0
2	0	0	TACCACTCCG	4771	0.0	#DIV/0!	0.0
0	1	1	TACCAGCAAA	4772	#DIV/0!	1.0	#DIV/0!
1	1	0	TACCCGTAAG	4773	1.0	0.0	0.0
0	0	2	TACCTCGTTA	4774	#DIV/0!	#DIV/0!	#DIV/0!
1	0	1	TACCTTAGGT	4775	0.0	#DIV/0!	1.0
0	2	0	TACCTTCTCT	4776	#DIV/0!	0.0	#DIV/0!
1	1	0	TACGAGGACA	4777	1.0	0.0	0.0
0	0	2	TACGAGGCAA	4778	#DIV/0!	#DIV/0!	#DIV/0!
0	2	0	TACGCTAATA	4779	#DIV/0!	0.0	#DIV/0!
1	0	1	TACGTCTCCA	4780	0.0	#DIV/0!	1.0
2	0	0	TACGTTGCCG	4781	0.0	#DIV/0!	0.0
1	1	0	TACTACTCCT	4782	1.0	0.0	0.0
1	0	1	TACTATACAC	4783	0.0	#DIV/0!	1.0
1	1	0	TACTATGCTA	4784	1.0	0.0	0.0
1	0	1	TACTCTCGCT	4785	0.0	#DIV/0!	1.0
0	2	0	TACTCTCGTT	4786	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	2	0	TACTGGTTTA	4787	#DIV/0!	0.0	#DIV/0!
1	1	0	TACTTATAAA	4788	1.0	0.0	0.0
0	1	1	TACTTGTTGG	4789	#DIV/0!	1.0	#DIV/0!
0	1	1	TACTTTAAAC	4790	#DIV/0!	1.0	#DIV/0!
0	2	0	TACTTTATCT	4791	#DIV/0!	0.0	#DIV/0!
1	0	1	TACTTTGGAA	4792	0.0	#DIV/0!	1.0
1	0	1	TAGAAATGCG	4793	0.0	#DIV/0!	1.0
1	0	1	TAGAAGAAAA	4794	0.0	#DIV/0!	1.0
1	0	1	TAGATTGGCA	4795	0.0	#DIV/0!	1.0
1	1	0	TAGATTTCAT	4796	1.0	0.0	0.0
0	1	1	TAGCAAAAGG	4797	#DIV/0!	1.0	#DIV/0!
1	0	1	TAGCAACGGG	4798	0.0	#DIV/0!	1.0
1	1	0	TAGCACCGCC	4799	1.0	0.0	0.0
0	0	2	TAGCACTATT	4800	#DIV/0!	#DIV/0!	#DIV/0!
1	0	1	TAGCATAAAC	4801	0.0	#DIV/0!	1.0
1	1	0	TAGCCAATTT	4802	1.0	0.0	0.0
1	0	1	TAGCCATACC	4803	0.0	#DIV/0!	1.0
1	1	0	TAGCTGCCCA	4804	1.0	0.0	0.0
2	0	0	TAGCTTTTTC	4805	0.0	#DIV/0!	0.0
0	2	0	TAGGAAGAAA	4806	#DIV/0!	0.0	#DIV/0!
0	2	0	TAGGCACCAA	4807	#DIV/0!	0.0	#DIV/0!
0	1	1	TAGGCAGTGA	4808	#DIV/0!	1.0	#DIV/0!
1	1	0	TAGTAGTAAC	4809	1.0	0.0	0.0
0	0	2	TAGTCGCTGT	4810	#DIV/0!	#DIV/0!	#DIV/0!
0	1	1	TAGTCGGAGA	4811	#DIV/0!	1.0	#DIV/0!
1	0	1	TAGTGCGCTG	4812	0.0	#DIV/0!	1.0
0	0	2	TAGTGCTAAG	4813	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	TAGTTAATAG	4814	1.0	0.0	0.0

Table 5, cont.

0	2	0	TAGTTCGTAT	4815	#DIV/0!	0.0	#DIV/0!
1	1	0	TAGTTTAGGT	4816	1.0	0.0	0.0
1	1	0	TAGTTTTCTA	4817	1.0	0.0	0.0
1	1	0	TATAAAGAAC	4818	1.0	0.0	0.0
0	2	0	TATAAATACT	4819	#DIV/0!	0.0	#DIV/0!
0	2	0	TATAACCCTA	4820	#DIV/0!	0.0	#DIV/0!
1	1	0	TATAAGTATA	4821	1.0	0.0	0.0
0	2	0	TATAATAGTA	4822	#DIV/0!	0.0	#DIV/0!
2	0	0	TATAATTGCG	4823	0.0	#DIV/0!	0.0
1	1	0	TATACATAGT	4824	1.0	0.0	0.0
0	2	0	TATACTTAGC	4825	#DIV/0!	0.0	#DIV/0!
2	0	0	TATAGAGAAC	4826	0.0	#DIV/0!	0.0
0	1	1	TATAGATTGT	4827	#DIV/0!	1.0	#DIV/0!
0	2	0	TATATCTTAA	4828	#DIV/0!	0.0	#DIV/0!
2	0	0	TATATCTTCC	4829	0.0	#DIV/0!	0.0
1	0	1	TATATTTAAA	4830	0.0	#DIV/0!	1.0
0	2	0	TATCAAACTT	4831	#DIV/0!	0.0	#DIV/0!
0	1	1	TATCAGACGA	4832	#DIV/0!	1.0	#DIV/0!
1	0	1	TATCCAGTTG	4833	0.0	#DIV/0!	1.0
2	0	0	TATCCATCAA	4834	0.0	#DIV/0!	0.0
1	0	1	TATCCTCACA	4835	0.0	#DIV/0!	1.0
1	0	1	TATCTACGTA	4836	0.0	#DIV/0!	1.0
1	0	1	TATGACGGGA	4837	0.0	#DIV/0!	1.0
0	2	0	TATGCGTTGA	4838	#DIV/0!	0.0	#DIV/0!
0	0	2	TATGGCTCCT	4839	#DIV/0!	#DIV/0!	#DIV/0!
2	0	0	TATGGGCGAA	4840	0.0	#DIV/0!	0.0
1	1	0	TATGTAATAC	4841	1.0	0.0	0.0
1	1	0	TATGTATATA	4842	1.0	0.0	0.0

Table 5, cont.

0	1	1	TATTAGCGTG	4843	#DIV/0!	1.0	#DIV/0!
2	0	0	TATTATACTT	4844	0.0	#DIV/0!	0.0
1	1	0	TATTCATTTA	4845	1.0	0.0	0.0
0	1	1	TATTCCCCAA	4846	#DIV/0!	1.0	#DIV/0!
2	0	0	TATTCTTTAC	4847	0.0	#DIV/0!	0.0
0	2	0	TATTGGACTC	4848	#DIV/0!	0.0	#DIV/0!
1	1	0	TATTTAATTG	4849	1.0	0.0	0.0
2	0	0	TATTTACCAT	4850	0.0	#DIV/0!	0.0
1	1	0	TATTTATTAC	4851	1.0	0.0	0.0
2	0	0	TATTTATTCC	4852	0.0	#DIV/0!	0.0
1	1	0	TATTTCTTAT	4853	1.0	0.0	0.0
1	1	0	TATTTCTTGT	4854	1.0	0.0	0.0
0	2	0	TATTTGGCAC	4855	#DIV/0!	0.0	#DIV/0!
1	1	0	TCAAAAAGTC	4856	1.0	0.0	0.0
0	2	0	TCAAAGGTGC	4857	#DIV/0!	0.0	#DIV/0!
0	1	1	TCAAATATGA	4858	#DIV/0!	1.0	#DIV/0!
1	1	0	TCAAGAAATG	4859	1.0	0.0	0.0
1	1	0	TCAAGGCATA	4860	1.0	0.0	0.0
0	1	1	TCAAGTACTC	4861	#DIV/0!	1.0	#DIV/0!
1	0	1	TCAAGTTGGG	4862	0.0	#DIV/0!	1.0
1	1	0	TCAATATCAC	4863	1.0	0.0	0.0
1	0	1	TCAATTACAT	4864	0.0	#DIV/0!	1.0
1	1	0	TCACAGAATC	4865	1.0	0.0	0.0
0	0	2	TCACCAGAAG	4866	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	TCACCCACAC	4867	1.0	0.0	0.0
0	1	1	TCAGAGTCAA	4868	#DIV/0!	1.0	#DIV/0!
0	2	0	TCAGCATTCT	4869	#DIV/0!	0.0	#DIV/0!
0	1	1	TCAGCCAAGA	4870	#DIV/0!	1.0	#DIV/0!

Table 5, cont.

0	2	0	TCAGCTCAAG	4871	#DIV/0!	0.0	#DIV/0!
0	1	1	TCAGTTTCTA	4872	#DIV/0!	1.0	#DIV/0!
0	0	2	TCATATTTCC	4873	#DIV/0!	#DIV/0!	#DIV/0!
1	0	1	TCATCATCAG	4874	0.0	#DIV/0!	1.0
1	1	0	TCATTGAACG	4875	1.0	0.0	0.0
1	1	0	TCATTGATTC	4876	1.0	0.0	0.0
0	2	0	TCATTTATGA	4877	#DIV/0!	0.0	#DIV/0!
1	1	0	TCCAAAATCA	4878	1.0	0.0	0.0
1	1	0	TCCAAATTAC	4879	1.0	0.0	0.0
1	1	0	TCCACACACA	4880	1.0	0.0	0.0
0	0	2	TCCACTCCTT	4881	#DIV/0!	#DIV/0!	#DIV/0!
0	1	1	TCCATATATA	4882	#DIV/0!	1.0	#DIV/0!
0	1	1	TCCATCTGTA	4883	#DIV/0!	1.0	#DIV/0!
1	0	1	TCCCAATTAA	4884	0.0	#DIV/0!	1.0
0	0	2	TCCCCGGTAC	4885	#DIV/0!	#DIV/0!	#DIV/0!
0	1	1	TCCCCGTCAT	4886	#DIV/0!	1.0	#DIV/0!
0	1	1	TCCCCGTCCA	4887	#DIV/0!	1.0	#DIV/0!
0	1	1	TCCCTACGCC	4888	#DIV/0!	1.0	#DIV/0!
0	1	1	TCCCTGTACA	4889	#DIV/0!	1.0	#DIV/0!
0	2	0	TCCCTTATTA	4890	#DIV/0!	0.0	#DIV/0!
1	0	1	TCCGAGCTGC	4891	0.0	#DIV/0!	1.0
0	1	1	TCCGTTCACT	4892	#DIV/0!	1.0	#DIV/0!
0	0	2	TCCTAAGATG	4893	#DIV/0!	#DIV/0!	#DIV/0!
0	1	1	TCCTCAATTA	4894	#DIV/0!	1.0	#DIV/0!
0	2	0	TCCTCGTACA	4895	#DIV/0!	0.0	#DIV/0!
0	1	1	TCCTCTCGTT	4896	#DIV/0!	1.0	#DIV/0!
0	0	2	TCCTCTTTTC	4897	#DIV/0!	#DIV/0!	#DIV/0!
0	2	0	TCCTTCCAGG	4898	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	2	0	TCCTTGAATG	4899	#DIV/0!	0.0	#DIV/0!
0	1	1	TCCTTGGAAG	4900	#DIV/0!	1.0	#DIV/0!
0	1	1	TCCTTGTCTG	4901	#DIV/0!	1.0	#DIV/0!
1	1	0	TCGAACCTCT	4902	1.0	0.0	0.0
1	0	1	TCGAACTTTT	4903	0.0	#DIV/0!	1.0
0	0	2	TCGAAGTCGT	4904	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	TCGACAACCC	4905	1.0	0.0	0.0
0	1	1	TCGACTGGAA	4906	#DIV/0!	1.0	#DIV/0!
0	2	0	TCGAGTCGAA	4907	#DIV/0!	0.0	#DIV/0!
0	1	1	TCGATTTATT	4908	#DIV/0!	1.0	#DIV/0!
1	1	0	TCGCCAGAAG	4909	1.0	0.0	0.0
1	1	0	TCGCCAGTCT	4910	1.0	0.0	0.0
2	0	0	TCGCGCAATC	4911	0.0	#DIV/0!	0.0
0	1	1	TCGCTGTTTT	4912	#DIV/0!	1.0	#DIV/0!
1	1	0	TCGCTTCCAG	4913	1.0	0.0	0.0
1	0	1	TCGGGGAGAG	4914	0.0	#DIV/0!	1.0
1	1	0	TCGGTCAAAT	4915	1.0	0.0	0.0
0	2	0	TCGGTCTTAT	4916	#DIV/0!	0.0	#DIV/0!
1	0	1	TCGGTGGACC	4917	0.0	#DIV/0!	1.0
0	1	1	TCGTCAGAGA	4918	#DIV/0!	1.0	#DIV/0!
0	1	1	TCGTCTGTTC	4919	#DIV/0!	1.0	#DIV/0!
0	0	2	TCGTGATTAC	4920	#DIV/0!	#DIV/0!	#DIV/0!
0	0	2	TCGTGGGAGC	4921	#DIV/0!	#DIV/0!	#DIV/0!
0	0	2	TCGTTCACTT	4922	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	TCTACGTTCC	4923	1.0	0.0	0.0
0	1	1	TCTAGCTCTT	4924	#DIV/0!	1.0	#DIV/0!
1	1	0	TCTCAAAAAA	4925	1.0	0.0	0.0
1	0	1	TCTCCAGTTG	4926	0.0	#DIV/0!	1.0

Table 5, cont.

0	1	1	TCTCCGGAAG	4927	#DIV/0!	1.0	#DIV/0!
0	1	1	TCTCCGTACA	4928	#DIV/0!	1.0	#DIV/0!
0	0	2	TCTCGGTTAA	4929	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	TCTCTATTGG	4930	1.0	0.0	0.0
0	2	0	TCTGAATATA	4931	#DIV/0!	0.0	#DIV/0!
0	2	0	TCTGACTTAG	4932	#DIV/0!	0.0	#DIV/0!
1	0	1	TCTGCGTCCG	4933	0.0	#DIV/0!	1.0
0	0	2	TCTGGTTTTA	4934	#DIV/0!	#DIV/0!	#DIV/0!
0	1	1	TCTGTACAAT	4935	#DIV/0!	1.0	#DIV/0!
1	0	1	TCTGTTAGAA	4936	0.0	#DIV/0!	1.0
0	2	0	TCTTCAGACA	4937	#DIV/0!	0.0	#DIV/0!
0	0	2	TCTTCAGCTG	4938	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	TCTTCCAACG	4939	1.0	0.0	0.0
1	0	1	TCTTCCAAGA	4940	0.0	#DIV/0!	1.0
1	1	0	TCTTGGATAA	4941	1.0	0.0	0.0
1	0	1	TCTTTCTGGG	4942	0.0	#DIV/0!	1.0
0	2	0	TCTTTTTACA	4943	#DIV/0!	0.0	#DIV/0!
0	1	1	TGAAAGCTTC	4944	#DIV/0!	1.0	#DIV/0!
1	0	1	TGAAATTCTA	4945	0.0	#DIV/0!	1.0
0	0	2	TGAACTATTT	4946	#DIV/0!	#DIV/0!	#DIV/0!
0	1	1	TGAAGAAAAT	4947	#DIV/0!	1.0	#DIV/0!
2	0	0	TGAATTCTTT	4948	0.0	#DIV/0!	0.0
0	1	1	TGAGGGCTTA	4949	#DIV/0!	1.0	#DIV/0!
0	1	1	TGATGAGAAG	4950	#DIV/0!	1.0	#DIV/0!
0	2	0	TGATTAATAT	4951	#DIV/0!	0.0	#DIV/0!
2	0	0	TGATTGCACA	4952	0.0	#DIV/0!	0.0
0	2	0	TGATTTATCC	4953	#DIV/0!	0.0	#DIV/0!
1	0	1	TGATTTGTAT	4954	0.0	#DIV/0!	1.0

Table 5, cont.

0	1	1	TGCAATCGGC	4955	#DIV/0!	1.0	#DIV/0!
1	1	0	TGCAGAAAGG	4956	1.0	0.0	0.0
1	1	0	TGCAGCGAGT	4957	1.0	0.0	0.0
1	0	1	TGCAGGTGCC	4958	0.0	#DIV/0!	1.0
1	1	0	TGCAGGTTGC	4959	1.0	0.0	0.0
1	0	1	TGCAGTGGAA	4960	0.0	#DIV/0!	1.0
0	2	0	TGCATCAAAA	4961	#DIV/0!	0.0	#DIV/0!
0	0	2	TGCCAGGAAA	4962	#DIV/0!	#DIV/0!	#DIV/0!
1	0	1	TGCCTTCCGT	4963	0.0	#DIV/0!	1.0
1	0	1	TGCGCAAGTC	4964	0.0	#DIV/0!	1.0
0	0	2	TGCTAAACGC	4965	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	TGCTGTTACA	4966	1.0	0.0	0.0
0	0	2	TGGACAATGT	4967	#DIV/0!	#DIV/0!	#DIV/0!
0	0	2	TGGACATCCT	4968	#DIV/0!	#DIV/0!	#DIV/0!
0	2	0	TGGACATCTA	4969	#DIV/0!	0.0	#DIV/0!
2	0	0	TGGACGAATA	4970	0.0	#DIV/0!	0.0
0	1	1	TGGATACTCA	4971	#DIV/0!	1.0	#DIV/0!
1	0	1	TGGCGGGGCA	4972	0.0	#DIV/0!	1.0
0	1	1	TGGGACACTA	4973	#DIV/0!	1.0	#DIV/0!
1	1	0	TGGGAGAAGC	4974	1.0	0.0	0.0
0	0	2	TGGGTGTAGA	4975	#DIV/0!	#DIV/0!	#DIV/0!
0	0	2	TGGTAACAGA	4976	#DIV/0!	#DIV/0!	#DIV/0!
2	0	0	TGGTAATTAT	4977	0.0	#DIV/0!	0.0
0	1	1	TGGTCAGTAT	4978	#DIV/0!	1.0	#DIV/0!
0	0	2	TGGTCCTCCC	4979	#DIV/0!	#DIV/0!	#DIV/0!
0	2	0	TGGTCGGAGT	4980	#DIV/0!	0.0	#DIV/0!
0	1	1	TGGTTCTGCT	4981	#DIV/0!	1.0	#DIV/0!
0	1	1	TGGTTTATTT	4982	#DIV/0!	1.0	#DIV/0!

Table 5, cont.

1	1	0	TGTAAAAAAA	4983	1.0	0.0	0.0
2	0	0	TGTAAACGCT	4984	0.0	#DIV/0!	0.0
1	0	1	TGTAAATTAT	4985	0.0	#DIV/0!	1.0
0	1	1	TGTAATTTGG	4986	#DIV/0!	1.0	#DIV/0!
0	2	0	TGTACGTGGT	4987	#DIV/0!	0.0	#DIV/0!
1	1	0	TGTAGATTAT	4988	1.0	0.0	0.0
1	1	0	TGTAGCATTT	4989	1.0	0.0	0.0
1	0	1	TGTATCAATA	4990	0.0	#DIV/0!	1.0
0	1	1	TGTATCCAAC	4991	#DIV/0!	1.0	#DIV/0!
1	1	0	TGTATTTTTG	4992	1.0	0.0	0.0
0	1	1	TGTCAGAAAT	4993	#DIV/0!	1.0	#DIV/0!
0	1	1	TGTCCTCCTC	4994	#DIV/0!	1.0	#DIV/0!
1	1	0	TGTCCTTCTC	4995	1.0	0.0	0.0
0	2	0	TGTCTCGTGA	4996	#DIV/0!	0.0	#DIV/0!
0	1	1	TGTGGCTTGT	4997	#DIV/0!	1.0	#DIV/0!
0	0	2	TGTGTTAACG	4998	#DIV/0!	#DIV/0!	#DIV/0!
0	2	0	TGTTAAACCT	4999	#DIV/0!	0.0	#DIV/0!
0	2	0	TGTTCAAATA	5000	#DIV/0!	0.0	#DIV/0!
0	2	0	TGTTTATAAG	5001	#DIV/0!	0.0	#DIV/0!
0	2	0	TGTTTTAGCA	5002	#DIV/0!	0.0	#DIV/0!
1	0	1	TGTTTTCATT	5003	0.0	#DIV/0!	1.0
1	1	0	TGTTTTTAAA	5004	1.0	0.0	0.0
0	2	0	TGTTTTTCAC	5005	#DIV/0!	0.0	#DIV/0!
0	1	1	TTAAAGGTGC	5006	#DIV/0!	1.0	#DIV/0!
1	1	0	TTAAATATAT	5007	1.0	0.0	0.0
0	1	1	TTAAATGTTT	5008	#DIV/0!	1.0	#DIV/0!
1	0	1	TTAATCGAAG	5009	0.0	#DIV/0!	1.0
1	1	0	TTAATGAAGC	5010	1.0	0.0	0.0

Table 5, cont.

0	2	0	TTAATGCCTG	5011	#DIV/0!	0.0	#DIV/0!
1	1	0	TTAATGTTAT	5012	1.0	0.0	0.0
0	2	0	TTAATGTTTT	5013	#DIV/0!	0.0	#DIV/0!
1	1	0	TTACAGAAGC	5014	1.0	0.0	0.0
1	1	0	TTACAGCTCA	5015	1.0	0.0	0.0
1	1	0	TTACCGATTT	5016	1.0	0.0	0.0
0	1	1	TTACGATCAT	5017	#DIV/0!	1.0	#DIV/0!
0	2	0	TTACTCAATT	5018	#DIV/0!	0.0	#DIV/0!
1	1	0	TTACTTCTTT	5019	1.0	0.0	0.0
2	0	0	TTAGATGCAA	5020	0.0	#DIV/0!	0.0
1	1	0	TTAGGGTTGG	5021	1.0	0.0	0.0
0	1	1	TTAGTCCAAA	5022	#DIV/0!	1.0	#DIV/0!
0	1	1	TTAGTGTCTA	5023	#DIV/0!	1.0	#DIV/0!
1	0	1	TTATGATAGG	5024	0.0	#DIV/0!	1.0
1	1	0	TTATGCTTAT	5025	1.0	0.0	0.0
2	0	0	TTATGGATGC	5026	0.0	#DIV/0!	0.0
0	1	1	TTATTATGGG	5027	#DIV/0!	1.0	#DIV/0!
1	1	0	TTATTCTGGC	5028	1.0	0.0	0.0
0	1	1	TTATTGACGC	5029	#DIV/0!	1.0	#DIV/0!
1	1	0	TTATTTCAAA	5030	1.0	0.0	0.0
1	1	0	TTATTTTTTT	5031	1.0	0.0	0.0
0	2	0	TTCAACTAAT	5032	#DIV/0!	0.0	#DIV/0!
0	0	2	TTCACAATTG	5033	#DIV/0!	#DIV/0!	#DIV/0!
0	1	1	TTCACCGGAA	5034	#DIV/0!	1.0	#DIV/0!
0	1	1	TTCACCTGTC	5035	#DIV/0!	1.0	#DIV/0!
1	1	0	TTCAGCCAAT	5036	1.0	0.0	0.0
1	1	0	TTCAGTGTAA	5037	1.0	0.0	0.0
0	2	0	TTCATCAACA	5038	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	0	2	TTCATCGCCT	5039	#DIV/0!	#DIV/0!	#DIV/0!
0	0	2	TTCCAATGGG	5040	#DIV/0!	#DIV/0!	#DIV/0!
1	0	1	TTCCACGGAC	5041	0.0	#DIV/0!	1.0
0	1	1	TTCCCGTACA	5042	#DIV/0!	1.0	#DIV/0!
0	0	2	TTCCTATTAA	5043	#DIV/0!	#DIV/0!	#DIV/0!
1	0	1	TTCCTTAGCT	5044	0.0	#DIV/0!	1.0
2	0	0	TTCCTTGTTT	5045	0.0	#DIV/0!	0.0
1	0	1	TTCGACATAT	5046	0.0	#DIV/0!	1.0
0	1	1	TTCGCCGCTC	5047	#DIV/0!	1.0	#DIV/0!
1	0	1	TTCGGGTCAG	5048	0.0	#DIV/0!	1.0
0	1	1	TTCGTCACTT	5049	#DIV/0!	1.0	#DIV/0!
1	1	0	TTCGTTCGCT	5050	1.0	0.0	0.0
2	0	0	TTCTAATATT	5051	0.0	#DIV/0!	0.0
0	0	2	TTCTCAAGTC	5052	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	TTCTGCATAT	5053	1.0	0.0	0.0
0	2	0	TTCTTGTTAC	5054	#DIV/0!	0.0	#DIV/0!
0	2	0	TTCTTTAATG	5055	#DIV/0!	0.0	#DIV/0!
0	1	1	TTGAAAGATT	5056	#DIV/0!	1.0	#DIV/0!
0	1	1	TTGAAATAAG	5057	#DIV/0!	1.0	#DIV/0!
1	0	1	TTGAACAGCT	5058	0.0	#DIV/0!	1.0
1	0	1	TTGATAATGA	5059	0.0	#DIV/0!	1.0
0	2	0	TTGATCAACA	5060	#DIV/0!	0.0	#DIV/0!
1	0	1	TTGATGAAAG	5061	0.0	#DIV/0!	1.0
1	1	0	TTGATTCAAA	5062	1.0	0.0	0.0
2	0	0	TTGATTGACC	5063	0.0	#DIV/0!	0.0
1	0	1	TTGCAAGGTG	5064	0.0	#DIV/0!	1.0
0	2	0	TTGCACTTCT	5065	#DIV/0!	0.0	#DIV/0!
1	1	0	TTGCCAGCCT	5066	1.0	0.0	0.0

Table 5, cont.

0	1	1	TTGCCAGCTT	5067	#DIV/0!	1.0	#DIV/0!
1	0	1	TTGCCAGTTT	5068	0.0	#DIV/0!	1.0
1	1	0	TTGCCTGTCT	5069	1.0	0.0	0.0
0	2	0	TTGCGTGACA	5070	#DIV/0!	0.0	#DIV/0!
0	2	0	TTGCTATATA	5071	#DIV/0!	0.0	#DIV/0!
1	1	0	TTGGAACCAA	5072	1.0	0.0	0.0
0	0	2	TTGGCACTGG	5073	#DIV/0!	#DIV/0!	#DIV/0!
0	1	1	TTGGGTTCGT	5074	#DIV/0!	1.0	#DIV/0!
2	0	0	TTGGTGCGTA	5075	0.0	#DIV/0!	0.0
1	1	0	TTGGTGGATA	5076	1.0	0.0	0.0
1	0	1	TTGTATAAAA	5077	0.0	#DIV/0!	1.0
2	0	0	TTGTATGCCA	5078	0.0	#DIV/0!	0.0
1	0	1	TTGTCACTCC	5079	0.0	#DIV/0!	1.0
0	2	0	TTGTTTGCAC	5080	#DIV/0!	0.0	#DIV/0!
1	1	0	TTTAAAAAAA	5081	1.0	0.0	0.0
0	2	0	TTTAAAGATA	5082	#DIV/0!	0.0	#DIV/0!
1	1	0	TTTAACATTT	5083	1.0	0.0	0.0
0	2	0	TTTAACCGCT	5084	#DIV/0!	0.0	#DIV/0!
1	1	0	TTTAAGTTTC	5085	1.0	0.0	0.0
0	2	0	TTTACCAGTC	5086	#DIV/0!	0.0	#DIV/0!
0	1	1	TTTACGTATG	5087	#DIV/0!	1.0	#DIV/0!
1	0	1	TTTAGCATTA	5088	0.0	#DIV/0!	1.0
1	1	0	TTTAGGGTCA	5089	1.0	0.0	0.0
2	0	0	TTTAGTTTCG	5090	0.0	#DIV/0!	0.0
0	0	2	TTTATCTTGT	5091	#DIV/0!	#DIV/0!	#DIV/0!
2	0	0	TTTATTCAAT	5092	0.0	#DIV/0!	0.0
0	2	0	TTTATTTTTT	5093	#DIV/0!	0.0	#DIV/0!
1	1	0	TTTCAAGAAC	5094	1.0	0.0	0.0

Table 5, cont.

1	0	1	TTTCAATACC	5095	0.0	#DIV/0!	1.0
0	1	1	TTTCAATTGC	5096	#DIV/0!	1.0	#DIV/0!
0	2	0	TTTCATTTCC	5097	#DIV/0!	0.0	#DIV/0!
0	2	0	TTTCCAGAAT	5098	#DIV/0!	0.0	#DIV/0!
1	1	0	TTTCCATTCA	5099	1.0	0.0	0.0
2	0	0	TTTCCCAAGA	5100	0.0	#DIV/0!	0.0
1	1	0	TTTCTTCAAC	5101	1.0	0.0	0.0
0	1	1	TTTGAAAGTA	5102	#DIV/0!	1.0	#DIV/0!
1	0	1	TTTGAGCGCA	5103	0.0	#DIV/0!	1.0
0	1	1	TTTGCATTCC	5104	#DIV/0!	1.0	#DIV/0!
1	1	0	TTTGCCATCG	5105	1.0	0.0	0.0
0	1	1	TTTGCCTAAA	5106	#DIV/0!	1.0	#DIV/0!
1	1	0	TTTGCTTGGT	5107	1.0	0.0	0.0
0	2	0	TTTGGATAGT	5108	#DIV/0!	0.0	#DIV/0!
0	0	2	TTTGGTCGTA	5109	#DIV/0!	#DIV/0!	#DIV/0!
1	0	1	TTTGGTCTTG	5110	0.0	#DIV/0!	1.0
2	0	0	TTTGGTTTCA	5111	0.0	#DIV/0!	0.0
1	0	1	TTTGGTTTCG	5112	0.0	#DIV/0!	1.0
1	0	1	TTTTAAAATA	5113	0.0	#DIV/0!	1.0
0	1	1	TTTTAAGATT	5114	#DIV/0!	1.0	#DIV/0!
2	0	0	TTTTATATAA	5115	0.0	#DIV/0!	0.0
1	1	0	TTTTATATTT	5116	1.0	0.0	0.0
0	0	2	TTTTCAAATT	5117	#DIV/0!	#DIV/0!	#DIV/0!
2	0	0	TTTTCCAAAA	5118	0.0	#DIV/0!	0.0
0	1	1	TTTTCCAATC	5119	#DIV/0!	1.0	#DIV/0!
0	2	0	TTTTCCTCTT	5120	#DIV/0!	0.0	#DIV/0!
0	1	1	TTTTCGACCA	5121	#DIV/0!	1.0	#DIV/0!
0	2	0	TTTTCTTTCT	5122	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	2	0	TTTTGATTTT	5123	#DIV/0!	0.0	#DIV/0!
0	1	1	TTTTGGGACT	5124	#DIV/0!	1.0	#DIV/0!
1	1	0	TTTTTAAAAA	5125	1.0	0.0	0.0
0	2	0	TTTTTAAGCA	5126	#DIV/0!	0.0	#DIV/0!
1	1	0	TTTTTAATAC	5127	1.0	0.0	0.0
1	1	0	TTTTTAATAG	5128	1.0	0.0	0.0
1	1	0	TTTTTATAAT	5129	1.0	0.0	0.0
0	1	1	TTTTTCCCTT	5130	#DIV/0!	1.0	#DIV/0!
2	0	0	TTTTTCTATT	5131	0.0	#DIV/0!	0.0
0	2	0	TTTTTCTTAA	5132	#DIV/0!	0.0	#DIV/0!
1	1	0	TTTTTTTGGA	5133	1.0	0.0	0.0
1	0	0	AAAAAAAAAG	5134	0.0	#DIV/0!	0.0
1	0	0	AAAAAAAAAT	5135	0.0	#DIV/0!	0.0
0	1	0	AAAAAAAATC	5136	#DIV/0!	0.0	#DIV/0!
0	0	1	AAAAAAACTC	5137	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AAAAAAAGAA	5138	#DIV/0!	0.0	#DIV/0!
0	1	0	AAAAAAAGCG	5139	#DIV/0!	0.0	#DIV/0!
0	1	0	AAAAAAATTG	5140	#DIV/0!	0.0	#DIV/0!
0	1	0	AAAAAACAAA	5141	#DIV/0!	0.0	#DIV/0!
0	1	0	AAAAAACGAT	5142	#DIV/0!	0.0	#DIV/0!
0	1	0	AAAAAAGAGA	5143	#DIV/0!	0.0	#DIV/0!
0	0	1	AAAAAAGGTC	5144	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AAAAAATAAA	5145	#DIV/0!	0.0	#DIV/0!
0	0	1	AAAAAATAAT	5146	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AAAAAATCCT	5147	0.0	#DIV/0!	0.0
0	1	0	AAAAAATCTG	5148	#DIV/0!	0.0	#DIV/0!
1	0	0	AAAAAATGCA	5149	0.0	#DIV/0!	0.0
0	1	0	AAAAAATTCA	5150	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

1	0	0	AAAAAATTTA	5151	0.0	#DIV/0!	0.0
0	1	0	AAAAACATCT	5152	#DIV/0!	0.0	#DIV/0!
0	1	0	AAAAACCACT	5153	#DIV/0!	0.0	#DIV/0!
0	0	1	AAAAACCCAG	5154	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AAAAACCCAT	5155	#DIV/0!	0.0	#DIV/0!
1	0	0	AAAAACTATT	5156	0.0	#DIV/0!	0.0
1	0	0	AAAAACTCAA	5157	0.0	#DIV/0!	0.0
0	1	0	AAAAACTCAT	5158	#DIV/0!	0.0	#DIV/0!
0	0	1	AAAAACTTTT	5159	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AAAAAGAAAA	5160	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AAAAAGAGAC	5161	#DIV/0!	0.0	#DIV/0!
0	0	1	AAAAAGAGCA	5162	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AAAAAGAGGG	5163	0.0	#DIV/0!	0.0
0	0	1	AAAAAGCAAG	5164	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AAAAAGCAAT	5165	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AAAAAGGCGA	5166	#DIV/0!	0.0	#DIV/0!
0	1	0	AAAAAGTAGC	5167	#DIV/0!	0.0	#DIV/0!
1	0	0	AAAAAGTCGC	5168	0.0	#DIV/0!	0.0
0	1	0	AAAAATACGA	5169	#DIV/0!	0.0	#DIV/0!
1	0	0	AAAAATCATC	5170	0.0	#DIV/0!	0.0
0	0	1	AAAAATCCCC	5171	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AAAAATGGGA	5172	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AAAAATTTCA	5173	#DIV/0!	0.0	#DIV/0!
1	0	0	AAAAATTTCC	5174	0.0	#DIV/0!	0.0
1	0	0	AAAAATTTGT	5175	0.0	#DIV/0!	0.0
1	0	0	AAAACAACAA	5176	0.0	#DIV/0!	0.0
1	0	0	AAAACAAGCC	5177	0.0	#DIV/0!	0.0
0	1	0	AAAACAGTGA	5178	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	0	1	AAAACATATC	5179	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AAAACCCAAT	5180	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AAAACCCCTT	5181	0.0	#DIV/0!	0.0
0	0	1	AAAACCTTTG	5182	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AAAACGCGTA	5183	0.0	#DIV/0!	0.0
1	0	0	AAAACTATTC	5184	0.0	#DIV/0!	0.0
0	1	0	AAAACTTGGT	5185	#DIV/0!	0.0	#DIV/0!
0	0	1	AAAACTTTGC	5186	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AAAAGACCTA	5187	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AAAAGATCTG	5188	#DIV/0!	0.0	#DIV/0!
0	1	0	AAAAGCACCC	5189	#DIV/0!	0.0	#DIV/0!
0	0	1	AAAAGCGATG	5190	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AAAAGCGCTA	5191	#DIV/0!	0.0	#DIV/0!
1	0	0	AAAAGCGGGG	5192	0.0	#DIV/0!	0.0
1	0	0	AAAAGCTACA	5193	0.0	#DIV/0!	0.0
0	0	1	AAAAGGATAT	5194	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AAAAGGCACG	5195	#DIV/0!	0.0	#DIV/0!
0	1	0	AAAAGGCCGT	5196	#DIV/0!	0.0	#DIV/0!
0	1	0	AAAAGGGGAA	5197	#DIV/0!	0.0	#DIV/0!
0	1	0	AAAAGGTACA	5198	#DIV/0!	0.0	#DIV/0!
0	1	0	AAAAGGTCAT	5199	#DIV/0!	0.0	#DIV/0!
0	1	0	AAAAGTACCT	5200	#DIV/0!	0.0	#DIV/0!
0	1	0	AAAAGTCACA	5201	#DIV/0!	0.0	#DIV/0!
1	0	0	AAAAGTCCAA	5202	0.0	#DIV/0!	0.0
0	0	1	AAAAGTGGTG	5203	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AAAAGTTTGA	5204	0.0	#DIV/0!	0.0
1	0	0	AAAATAAACC	5205	0.0	#DIV/0!	0.0
0	1	0	AAAATAAATA	5206	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	0	1	AAAATAAGGC	5207	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AAAATAATCT	5208	#DIV/0!	0.0	#DIV/0!
0	1	0	AAAATACAGA	5209	#DIV/0!	0.0	#DIV/0!
0	1	0	AAAATACTAC	5210	#DIV/0!	0.0	#DIV/0!
0	0	1	AAAATACTAT	5211	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AAAATAGCTT	5212	0.0	#DIV/0!	0.0
0	1	0	AAAATCAACT	5213	#DIV/0!	0.0	#DIV/0!
0	0	1	AAAATCTGGT	5214	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AAAATGAGAA	5215	#DIV/0!	0.0	#DIV/0!
0	0	1	AAAATGCATC	5216	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AAAATGCTAA	5217	0.0	#DIV/0!	0.0
0	1	0	AAAATGGAAA	5218	#DIV/0!	0.0	#DIV/0!
0	1	0	AAAATGTAGA	5219	#DIV/0!	0.0	#DIV/0!
0	1	0	AAAATGTTTA	5220	#DIV/0!	0.0	#DIV/0!
1	0	0	AAAATTAAGG	5221	0.0	#DIV/0!	0.0
0	1	0	AAAATTAGTT	5222	#DIV/0!	0.0	#DIV/0!
1	0	0	AAAATTCCTT	5223	0.0	#DIV/0!	0.0
0	0	1	AAAATTGGAA	5224	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AAAATTTGAA	5225	#DIV/0!	0.0	#DIV/0!
0	1	0	AAAATTTTAT	5226	#DIV/0!	0.0	#DIV/0!
0	0	1	AAACAAAACC	5227	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AAACAAACGT	5228	0.0	#DIV/0!	0.0
1	0	0	AAACAAAGAC	5229	0.0	#DIV/0!	0.0
0	0	1	AAACAAAGTG	5230	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AAACAAATCT	5231	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AAACAAGGTC	5232	0.0	#DIV/0!	0.0
1	0	0	AAACACAAAA	5233	0.0	#DIV/0!	0.0
0	0	1	AAACACACAG	5234	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

0	0	1	AAACACCCAC	5235	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AAACACCGAC	5236	#DIV/0!	0.0	#DIV/0!
0	0	1	AAACAGAAGC	5237	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AAACAGAGCA	5238	#DIV/0!	0.0	#DIV/0!
0	1	0	AAACATAAAA	5239	#DIV/0!	0.0	#DIV/0!
1	0	0	AAACCAACTC	5240	0.0	#DIV/0!	#DIV/0!
1	0	0	AAACCACCTA	5241	0.0	#DIV/0!	0.0
1	0	0	AAACCATTGC	5242	0.0	#DIV/0!	0.0
1	0	0	AAACCCGAAT	5243	0.0	#DIV/0!	0.0
0	0	1	AAACCGAATT	5244	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AAACCGCCAT	5245	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AAACCGGCTG	5246	#DIV/0!	0.0	#DIV/0!
0	1	0	AAACCGTCAT	5247	#DIV/0!	0.0	#DIV/0!
1	0	0	AAACCTTGAG	5248	0.0	#DIV/0!	#DIV/0!
0	0	1	AAACGAAACC	5249	#DIV/0!	#DIV/0!	0.0
1	0	0	AAACGACGAC	5250	0.0	#DIV/0!	#DIV/0!
1	0	0	AAACGATACC	5251	0.0	#DIV/0!	0.0
1	0	0	AAACGATTAG	5252	0.0	#DIV/0!	0.0
1	0	0	AAACGCAGAA	5253	0.0	#DIV/0!	0.0
0	1	0	AAACGCCGCT	5254	#DIV/0!	0.0	0.0
1	0	0	AAACGCGAAG	5255	0.0	#DIV/0!	#DIV/0!
0	1	0	AAACGGGAGC	5256	#DIV/0!	0.0	0.0
0	1	0	AAACGGGGTA	5257	#DIV/0!	0.0	#DIV/0!
0	1	0	AAACGTAGGA	5258	#DIV/0!	0.0	#DIV/0!
0	1	0	AAACTAAAAC	5259	#DIV/0!	0.0	#DIV/0!
0	1	0	AAACTAACTC	5260	#DIV/0!	0.0	#DIV/0!
0	0	1	AAACTAGGAA	5261	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AAACTATACA	5262	0.0	#DIV/0!	0.0

Table 5, cont.

0	0	1	AAACTATCCT	5263	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AAACTCTGCC	5264	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AAACTGAAAA	5265	0.0	#DIV/0!	0.0
0	0	1	AAACTGGGGT	5266	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AAACTGTGCT	5267	0.0	#DIV/0!	0.0
1	0	0	AAACTGTTGA	5268	0.0	#DIV/0!	0.0
1	0	0	AAACTTTATG	5269	0.0	#DIV/0!	0.0
0	0	1	AAACTTTTTT	5270	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AAAGAAATTC	5271	0.0	#DIV/0!	0.0
0	0	1	AAAGAACTGT	5272	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AAAGAACTTC	5273	0.0	#DIV/0!	0.0
1	0	0	AAAGAAGAAC	5274	0.0	#DIV/0!	0.0
1	0	0	AAAGAAGATA	5275	0.0	#DIV/0!	0.0
0	1	0	AAAGAATATA	5276	#DIV/0!	0.0	#DIV/0!
0	1	0	AAAGAATCTC	5277	#DIV/0!	0.0	#DIV/0!
1	0	0	AAAGACAAAA	5278	0.0	#DIV/0!	0.0
0	0	1	AAAGACAAAC	5279	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AAAGACAGGG	5280	#DIV/0!	0.0	#DIV/0!
0	1	0	AAAGACCAGA	5281	#DIV/0!	0.0	#DIV/0!
0	1	0	AAAGACCTAC	5282	#DIV/0!	0.0	#DIV/0!
0	0	1	AAAGACGAAG	5283	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AAAGACGCGC	5284	0.0	#DIV/0!	0.0
0	1	0	AAAGACGGAG	5285	#DIV/0!	0.0	#DIV/0!
0	1	0	AAAGACGTAT	5286	#DIV/0!	0.0	#DIV/0!
0	0	1	AAAGACTACT	5287	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AAAGACTCAA	5288	#DIV/0!	0.0	#DIV/0!
0	1	0	AAAGAGATCA	5289	#DIV/0!	0.0	#DIV/0!
1	0	0	AAAGAGCCCA	5290	0.0	#DIV/0!	0.0

Table 5, cont.

0	0	1	AAAGATAAAG	5291	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AAAGATTGCG	5292	#DIV/0!	0.0	#DIV/0!
0	1	0	AAAGCACCAC	5293	#DIV/0!	0.0	#DIV/0!
1	0	0	AAAGCATAAT	5294	0.0	#DIV/0!	0.0
0	1	0	AAAGCCAGAA	5295	#DIV/0!	0.0	#DIV/0!
0	0	1	AAAGCCAGAC	5296	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AAAGCCCCAA	5297	#DIV/0!	0.0	#DIV/0!
0	0	1	AAAGCGATGA	5298	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AAAGCGGTAT	5299	#DIV/0!	0.0	#DIV/0!
0	1	0	AAAGCTAAAG	5300	#DIV/0!	0.0	#DIV/0!
0	0	1	AAAGCTAACC	5301	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AAAGCTAGCA	5302	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AAAGCTCCAG	5303	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AAAGCTGATG	5304	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AAAGCTTTTT	5305	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AAAGGAATTG	5306	#DIV/0!	0.0	#DIV/0!
1	0	0	AAAGGAATTT	5307	0.0	#DIV/0!	0.0
1	0	0	AAAGGAGTGA	5308	0.0	#DIV/0!	0.0
1	0	0	AAAGGATACC	5309	0.0	#DIV/0!	0.0
1	0	0	AAAGGCCAGA	5310	0.0	#DIV/0!	0.0
0	1	0	AAAGGCCTGC	5311	#DIV/0!	0.0	#DIV/0!
0	0	1	AAAGGCGAGG	5312	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AAAGGCGGGG	5313	#DIV/0!	0.0	#DIV/0!
0	0	1	AAAGGGCACA	5314	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AAAGGGGTGC	5315	0.0	#DIV/0!	0.0
0	1	0	AAAGGTAAAG	5316	#DIV/0!	0.0	#DIV/0!
0	1	0	AAAGGTCTCA	5317	#DIV/0!	0.0	#DIV/0!
0	1	0	AAAGGTTTAA	5318	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

1	0	0	AAAGTATCAC	5319	0.0	#DIV/0!	0.0
0	1	0	AAAGTATGCC	5320	#DIV/0!	0.0	#DIV/0!
0	0	1	AAAGTCAGAG	5321	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AAAGTCCCCA	5322	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AAAGTCGATA	5323	0.0	#DIV/0!	0.0
1	0	0	AAAGTGCACG	5324	0.0	#DIV/0!	0.0
1	0	0	AAAGTGCGCG	5325	0.0	#DIV/0!	0.0
0	0	1	AAAGTGCTTG	5326	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AAAGTGTGGC	5327	0.0	#DIV/0!	0.0
0	0	1	AAAGTTAGGT	5328	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AAAGTTTACC	5329	0.0	#DIV/0!	0.0
0	1	0	AAAGTTTCTT	5330	#DIV/0!	0.0	#DIV/0!
1	0	0	AAATAAATGA	5331	0.0	#DIV/0!	0.0
0	0	1	AAATAAATTC	5332	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AAATAACAAA	5333	0.0	#DIV/0!	0.0
0	0	1	AAATAAGTAA	5334	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AAATAAGTAT	5335	#DIV/0!	0.0	#DIV/0!
0	1	0	AAATAATAAA	5336	#DIV/0!	0.0	#DIV/0!
0	1	0	AAATAATAAC	5337	#DIV/0!	0.0	#DIV/0!
0	1	0	AAATAATATC	5338	#DIV/0!	0.0	#DIV/0!
0	1	0	AAATAATGTT	5339	#DIV/0!	0.0	#DIV/0!
0	1	0	AAATACCGTA	5340	#DIV/0!	0.0	#DIV/0!
1	0	0	AAATACGACT	5341	0.0	#DIV/0!	0.0
0	1	0	AAATAGTGGT	5342	#DIV/0!	0.0	#DIV/0!
1	0	0	AAATATAAAT	5343	0.0	#DIV/0!	0.0
0	1	0	AAATATATCT	5344	#DIV/0!	0.0	#DIV/0!
0	1	0	AAATATTCAT	5345	#DIV/0!	0.0	#DIV/0!
1	0	0	AAATATTTTT	5346	0.0	#DIV/0!	0.0

Table 5, cont.

0	1	0	AAATCAACAC	5347	#DIV/0!	0.0	#DIV/0!
1	0	0	AAATCAAGAT	5348	0.0	#DIV/0!	0.0
0	1	0	AAATCATTAG	5349	#DIV/0!	0.0	#DIV/0!
0	0	1	AAATCATTAT	5350	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AAATCATTTT	5351	#DIV/0!	0.0	#DIV/0!
0	1	0	AAATCCTTCA	5352	#DIV/0!	0.0	#DIV/0!
0	1	0	AAATCGAAGG	5353	#DIV/0!	0.0	#DIV/0!
0	0	1	AAATCGAATC	5354	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AAATCTTGAA	5355	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AAATGAATTC	5356	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AAATGACGAT	5357	0.0	#DIV/0!	0.0
0	0	1	AAATGACTTT	5358	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AAATGAGTGG	5359	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AAATGATAGC	5360	#DIV/0!	0.0	#DIV/0!
0	1	0	AAATGATTAA	5361	#DIV/0!	0.0	#DIV/0!
1	0	0	AAATGCTCGT	5362	0.0	#DIV/0!	0.0
0	1	0	AAATGGAATT	5363	#DIV/0!	0.0	#DIV/0!
0	1	0	AAATGGATGA	5364	#DIV/0!	0.0	#DIV/0!
0	0	1	AAATGTAGGA	5365	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AAATGTATAA	5366	#DIV/0!	0.0	#DIV/0!
0	1	0	AAATGTTACT	5367	#DIV/0!	0.0	#DIV/0!
0	0	1	AAATGTTATT	5368	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AAATTAAAGC	5369	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AAATTAGATG	5370	0.0	#DIV/0!	0.0
1	0	0	AAATTATCAA	5371	0.0	#DIV/0!	0.0
0	1	0	AAATTCATTT	5372	#DIV/0!	0.0	#DIV/0!
0	1	0	AAATTCCAAA	5373	#DIV/0!	0.0	#DIV/0!
0	0	1	AAATTCGAAA	5374	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

0	0	1	AAATTCGTCA	5375	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AAATTCTCTA	5376	#DIV/0!	0.0	#DIV/0!
1	0	0	AAATTGAAAA	5377	0.0	#DIV/0!	0.0
1	0	0	AAATTGAGAA	5378	0.0	#DIV/0!	0.0
1	0	0	AAATTGGGCG	5379	0.0	#DIV/0!	0.0
1	0	0	AAATTGGTGC	5380	0.0	#DIV/0!	0.0
0	1	0	AAATTGTTCC	5381	#DIV/0!	0.0	#DIV/0!
0	1	0	AAATTTAGTT	5382	#DIV/0!	0.0	#DIV/0!
0	0	1	AAATTTATAC	5383	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AAATTTCATA	5384	#DIV/0!	0.0	#DIV/0!
0	1	0	AAATTTCGTT	5385	#DIV/0!	0.0	#DIV/0!
0	1	0	AAATTTCTCG	5386	#DIV/0!	0.0	#DIV/0!
0	1	0	AAATTTCTGC	5387	#DIV/0!	0.0	#DIV/0!
1	0	0	AAATTTCTTC	5388	0.0	#DIV/0!	0.0
1	0	0	AAATTTGTGT	5389	0.0	#DIV/0!	0.0
0	0	1	AAATTTTACA	5390	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AAATTTTTTT	5391	0.0	#DIV/0!	0.0
0	0	1	AACAAAAGGA	5392	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AACAAAAGGG	5393	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AACAAAGACC	5394	#DIV/0!	0.0	#DIV/0!
1	0	0	AACAAAGGGA	5395	0.0	#DIV/0!	0.0
0	0	1	AACAAATATA	5396	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AACAAATCAG	5397	#DIV/0!	0.0	#DIV/0!
0	1	0	AACAACAACT	5398	#DIV/0!	0.0	#DIV/0!
0	1	0	AACAACAAGC	5399	#DIV/0!	0.0	#DIV/0!
0	1	0	AACAACTCTT	5400	#DIV/0!	0.0	#DIV/0!
0	1	0	AACAAGCCTT	5401	#DIV/0!	0.0	#DIV/0!
1	0	0	AACAAGCGGT	5402	0.0	#DIV/0!	0.0

Table 5, cont.

0	0	1	AACAAGGTGG	5403	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AACAAGTACC	5404	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AACAAGTCCA	5405	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AACAATATCT	5406	#DIV/0!	0.0	#DIV/0!
0	1	0	AACAATCAAA	5407	#DIV/0!	0.0	#DIV/0!
0	0	1	AACAATCAAT	5408	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AACAATCCGT	5409	#DIV/0!	0.0	#DIV/0!
0	1	0	AACACAAAAT	5410	#DIV/0!	0.0	#DIV/0!
1	0	0	AACACAAAGC	5411	0.0	#DIV/0!	0.0
0	0	1	AACACAAGCC	5412	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AACACACCTT	5413	#DIV/0!	0.0	#DIV/0!
0	0	1	AACACATCAA	5414	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AACACCACTC	5415	0.0	#DIV/0!	0.0
0	1	0	AACACCATCA	5416	#DIV/0!	0.0	#DIV/0!
0	1	0	AACACCCCTT	5417	#DIV/0!	0.0	#DIV/0!
0	1	0	AACACCGCTT	5418	#DIV/0!	0.0	#DIV/0!
0	0	1	AACACGAAGA	5419	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AACACGACAA	5420	#DIV/0!	0.0	#DIV/0!
0	1	0	AACACGATGG	5421	#DIV/0!	0.0	#DIV/0!
0	0	1	AACACGGAGT	5422	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AACACTAGGC	5423	#DIV/0!	0.0	#DIV/0!
1	0	0	AACACTTTAA	5424	0.0	#DIV/0!	0.0
0	1	0	AACAGAAATT	5425	#DIV/0!	0.0	#DIV/0!
1	0	0	AACAGAGATG	5426	0.0	#DIV/0!	0.0
0	0	1	AACAGATCAG	5427	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AACAGCAGCC	5428	#DIV/0!	0.0	#DIV/0!
0	1	0	AACAGGCTCA	5429	#DIV/0!	0.0	#DIV/0!
0	1	0	AACAGTACGT	5430	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	0	1	AACAGTTTCA	5431	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AACAGTTTGG	5432	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AACATAATAA	5433	0.0	#DIV/0!	0.0
0	1	0	AACATAATAT	5434	#DIV/0!	0.0	#DIV/0!
1	0	0	AACATACCAG	5435	0.0	#DIV/0!	0.0
0	1	0	AACATATAGC	5436	#DIV/0!	0.0	#DIV/0!
0	0	1	AACATATGCA	5437	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AACATCAAGA	5438	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AACATCAGTG	5439	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AACATCCAAT	5440	#DIV/0!	0.0	#DIV/0!
1	0	0	AACATTATTT	5441	0.0	#DIV/0!	0.0
0	1	0	AACATTCAAT	5442	#DIV/0!	0.0	#DIV/0!
1	0	0	AACATTTACC	5443	0.0	#DIV/0!	0.0
1	0	0	AACATTTTTT	5444	0.0	#DIV/0!	0.0
1	0	0	AACCAAACCT	5445	0.0	#DIV/0!	0.0
1	0	0	AACCAAACTG	5446	0.0	#DIV/0!	0.0
0	0	1	AACCAAAGCT	5447	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AACCAAGGCG	5448	#DIV/0!	0.0	#DIV/0!
1	0	0	AACCAATTTG	5449	0.0	#DIV/0!	0.0
0	1	0	AACCACTCAA	5450	#DIV/0!	0.0	#DIV/0!
0	0	1	AACCAGACCA	5451	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AACCAGCGAA	5452	#DIV/0!	0.0	#DIV/0!
0	0	1	AACCATATGA	5453	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AACCCAGTTG	5454	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AACCCCAGTT	5455	0.0	#DIV/0!	0.0
1	0	0	AACCCGGACA	5456	0.0	#DIV/0!	0.0
0	0	1	AACCCTCCGT	5457	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AACCCTTCCA	5458	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	0	1	AACCGGAAAA	5459	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AACCTACACA	5460	#DIV/0!	0.0	#DIV/0!
0	1	0	AACCTAGAAA	5461	#DIV/0!	0.0	#DIV/0!
0	1	0	AACCTATTGG	5462	#DIV/0!	0.0	#DIV/0!
0	0	1	AACCTCCAGT	5463	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AACCTCCTCT	5464	0.0	#DIV/0!	0.0
0	0	1	AACCTGTTGT	5465	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AACCTTGACC	5466	0.0	#DIV/0!	0.0
1	0	0	AACCTTGGGT	5467	0.0	#DIV/0!	0.0
1	0	0	AACCTTTTGA	5468	0.0	#DIV/0!	0.0
0	1	0	AACGAAAAAA	5469	#DIV/0!	0.0	#DIV/0!
0	1	0	AACGAAAAGA	5470	#DIV/0!	0.0	#DIV/0!
0	1	0	AACGAAAGTA	5471	#DIV/0!	0.0	#DIV/0!
0	0	1	AACGAACAGT	5472	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AACGAATCGT	5473	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AACGAATTTT	5474	#DIV/0!	0.0	#DIV/0!
0	1	0	AACGACAGAG	5475	#DIV/0!	0.0	#DIV/0!
0	0	1	AACGACCAGG	5476	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AACGACCTGA	5477	0.0	#DIV/0!	0.0
1	0	0	AACGATACGA	5478	0.0	#DIV/0!	0.0
1	0	0	AACGATCCTT	5479	0.0	#DIV/0!	0.0
0	1	0	AACGCATATA	5480	#DIV/0!	0.0	#DIV/0!
0	0	1	AACGCATTTC	5481	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AACGCTATGA	5482	0.0	#DIV/0!	0.0
0	1	0	AACGCTTAAA	5483	#DIV/0!	0.0	#DIV/0!
0	1	0	AACGCTTCTC	5484	#DIV/0!	0.0	#DIV/0!
1	0	0	AACGCTTTTA	5485	0.0	#DIV/0!	0.0
0	0	1	AACGGACCAG	5486	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

0	1	0	AACGGAGAGA	5487	#DIV/0!	0.0	#DIV/0!
0	1	0	AACGGATAGA	5488	#DIV/0!	0.0	#DIV/0!
0	1	0	AACGGCAATT	5489	#DIV/0!	0.0	#DIV/0!
1	0	0	AACGGCCGAA	5490	0.0	#DIV/0!	0.0
0	0	1	AACGGTCGTG	5491	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AACGTCAATA	5492	#DIV/0!	0.0	#DIV/0!
0	1	0	AACGTCACCA	5493	#DIV/0!	0.0	#DIV/0!
0	0	1	AACGTCGAGC	5494	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AACGTCTGGA	5495	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AACGTGTCGT	5496	#DIV/0!	0.0	#DIV/0!
0	0	1	AACGTTCCAA	5497	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AACGTTTCGA	5498	#DIV/0!	0.0	#DIV/0!
0	1	0	AACTAAACTC	5499	#DIV/0!	0.0	#DIV/0!
1	0	0	AACTAAACTT	5500	0.0	#DIV/0!	0.0
1	0	0	AACTAAATAT	5501	0.0	#DIV/0!	0.0
0	1	0	AACTAAGCCC	5502	#DIV/0!	0.0	#DIV/0!
0	1	0	AACTACATTC	5503	#DIV/0!	0.0	#DIV/0!
0	0	1	AACTACCGTC	5504	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AACTACCGTT	5505	0.0	#DIV/0!	0.0
0	1	0	AACTACTTCG	5506	#DIV/0!	0.0	#DIV/0!
0	0	1	AACTAGACTG	5507	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AACTATACCA	5508	0.0	#DIV/0!	0.0
1	0	0	AACTATTTAA	5509	0.0	#DIV/0!	0.0
0	1	0	AACTCAGATG	5510	#DIV/0!	0.0	#DIV/0!
0	0	1	AACTCGGTAT	5511	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AACTCTCAAG	5512	#DIV/0!	0.0	#DIV/0!
0	0	1	AACTCTCTGT	5513	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AACTCTCTTA	5514	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	1	0	AACTCTGACT	5515	#DIV/0!	0.0	#DIV/0!
0	1	0	AACTGAAAGA	5516	#DIV/0!	0.0	#DIV/0!
1	0	0	AACTGAATGT	5517	0.0	#DIV/0!	0.0
0	0	1	AACTGACCCG	5518	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AACTGACCGA	5519	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AACTGAGCAG	5520	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AACTGAGGTC	5521	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AACTGATTAT	5522	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AACTGCCTTT	5523	#DIV/0!	0.0	#DIV/0!
0	1	0	AACTGGAAAA	5524	#DIV/0!	0.0	#DIV/0!
0	0	1	AACTGGCCAT	5525	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AACTGGGGCT	5526	#DIV/0!	0.0	#DIV/0!
0	0	1	AACTGTAGTC	5527	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AACTGTGCTT	5528	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AACTTAACTT	5529	0.0	#DIV/0!	0.0
0	0	1	AACTTAGTGT	5530	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AACTTCAAGA	5531	0.0	#DIV/0!	0.0
1	0	0	AACTTCGAAT	5532	0.0	#DIV/0!	0.0
0	1	0	AACTTCTGAA	5533	#DIV/0!	0.0	#DIV/0!
1	0	0	AACTTCTTGT	5534	0.0	#DIV/0!	0.0
0	0	1	AACTTGCCTC	5535	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AACTTGTGGA	5536	0.0	#DIV/0!	0.0
0	0	1	AACTTTACTA	5537	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AACTTTCAAA	5538	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AACTTTCTCG	5539	#DIV/0!	0.0	#DIV/0!
1	0	0	AACTTTGGAG	5540	0.0	#DIV/0!	0.0
0	0	1	AACTTTGTGA	5541	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AACTTTGTTA	5542	0.0	#DIV/0!	0.0

Table 5, cont.

0	1	0	AACTTTTGCG	5543	#DIV/0!	0.0	#DIV/0!
1	0	0	AACTTTTTCT	5544	0.0	#DIV/0!	0.0
1	0	0	AAGAAAAAAA	5545	0.0	#DIV/0!	0.0
1	0	0	AAGAAAAAAC	5546	0.0	#DIV/0!	0.0
0	0	1	AAGAAAAGTT	5547	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AAGAAACGCA	5548	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AAGAAACTTT	5549	0.0	#DIV/0!	0.0
0	0	1	AAGAAATTAT	5550	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AAGAAATTTC	5551	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AAGAACAAGA	5552	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AAGAACTAAA	5553	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AAGAACTGGA	5554	#DIV/0!	0.0	#DIV/0!
1	0	0	AAGAAGACAG	5555	0.0	#DIV/0!	0.0
0	0	1	AAGAAGACCT	5556	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AAGAAGCAAC	5557	#DIV/0!	0.0	#DIV/0!
0	1	0	AAGAAGCAGT	5558	#DIV/0!	0.0	#DIV/0!
0	1	0	AAGAAGCCAA	5559	#DIV/0!	0.0	#DIV/0!
0	1	0	AAGAAGCCAT	5560	#DIV/0!	0.0	#DIV/0!
0	1	0	AAGAAGCCGG	5561	#DIV/0!	0.0	#DIV/0!
0	1	0	AAGAAGCCTT	5562	#DIV/0!	0.0	#DIV/0!
1	0	0	AAGAAGCGAC	5563	0.0	#DIV/0!	0.0
1	0	0	AAGAAGTACA	5564	0.0	#DIV/0!	0.0
0	0	1	AAGAAGTCCC	5565	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AAGAAGTTTG	5566	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AAGAATAATT	5567	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AAGAATAGGC	5568	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AAGAATGTGG	5569	0.0	#DIV/0!	0.0
0	1	0	AAGACAAAAA	5570	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

1	0	0	AAGACAAACT	5571	0.0	#DIV/0!	0.0
0	0	1	AAGACAGAGC	5572	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AAGACATACC	5573	#DIV/0!	0.0	#DIV/0!
0	0	1	AAGACCAATT	5574	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AAGACGAAAA	5575	#DIV/0!	0.0	#DIV/0!
0	0	1	AAGACGATCG	5576	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AAGACGATCT	5577	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AAGACTCAAC	5578	#DIV/0!	0.0	#DIV/0!
0	1	0	AAGACTCTAT	5579	#DIV/0!	0.0	#DIV/0!
0	0	1	AAGACTGTGA	5580	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AAGAGAAAAA	5581	#DIV/0!	0.0	#DIV/0!
1	0	0	AAGAGAAGGC	5582	0.0	#DIV/0!	0.0
0	1	0	AAGAGAAGGT	5583	#DIV/0!	0.0	#DIV/0!
1	0	0	AAGAGACAAC	5584	0.0	#DIV/0!	0.0
0	0	1	AAGAGACCAG	5585	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AAGAGATGAT	5586	#DIV/0!	0.0	#DIV/0!
0	1	0	AAGAGCAGAA	5587	#DIV/0!	0.0	#DIV/0!
0	0	1	AAGAGCTGGT	5588	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AAGAGGAAAG	5589	0.0	#DIV/0!	0.0
0	0	1	AAGAGTGCTG	5590	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AAGATATCAG	5591	#DIV/0!	0.0	#DIV/0!
1	0	0	AAGATCACCG	5592	0.0	#DIV/0!	0.0
0	0	1	AAGATCAGAA	5593	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AAGATCCAAA	5594	#DIV/0!	0.0	#DIV/0!
0	0	1	AAGATGACAG	5595	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AAGATGCTTT	5596	0.0	#DIV/0!	0.0
0	1	0	AAGATGGCCA	5597	#DIV/0!	0.0	#DIV/0!
1	0	0	AAGATTGGGT	5598	0.0	#DIV/0!	0.0

Table 5, cont.

0	1	0	AAGATTTTAC	5599	#DIV/0!	0.0	#DIV/0!
0	1	0	AAGATTTTTG	5600	#DIV/0!	0.0	#DIV/0!
1	0	0	AAGCAAATAG	5601	0.0	#DIV/0!	0.0
0	1	0	AAGCAACTAA	5602	#DIV/0!	0.0	#DIV/0!
0	1	0	AAGCACATTA	5603	#DIV/0!	0.0	#DIV/0!
0	0	1	AAGCACCTGC	5604	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AAGCACGTCA	5605	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AAGCAGCTCA	5606	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AAGCAGGTCG	5607	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AAGCATAACA	5608	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AAGCCAGCAA	5609	0.0	#DIV/0!	0.0
0	1	0	AAGCCATCAC	5610	#DIV/0!	0.0	#DIV/0!
0	1	0	AAGCCATTTT	5611	#DIV/0!	0.0	#DIV/0!
0	0	1	AAGCCCAAAA	5612	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AAGCCCATTT	5613	0.0	#DIV/0!	0.0
0	1	0	AAGCCGGTGC	5614	#DIV/0!	0.0	#DIV/0!
0	0	1	AAGCCTCCTT	5615	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AAGCGAATTT	5616	0.0	#DIV/0!	0.0
1	0	0	AAGCGACTAA	5617	0.0	#DIV/0!	0.0
0	1	0	AAGCGGTTGC	5618	#DIV/0!	0.0	#DIV/0!
0	0	1	AAGCTAGATG	5619	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AAGCTATGAG	5620	0.0	#DIV/0!	0.0
0	0	1	AAGCTCCGTC	5621	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AAGCTGAACA	5622	0.0	#DIV/0!	0.0
1	0	0	AAGCTGATGT	5623	0.0	#DIV/0!	0.0
0	0	1	AAGCTGCTCG	5624	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AAGCTGGAAT	5625	#DIV/0!	0.0	#DIV/0!
0	1	0	AAGCTTTGTC	5626	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	0	1	AAGCTTTTGG	5627	#DIV/0!	#DIV/0!	#DIV/0!	
0	0	1	AAGGAACTAA	5628	#DIV/0!	#DIV/0!	#DIV/0!	
1	0	0	AAGGAAGATG	5629	0.0	#DIV/0!	0.0	
1	0	0	AAGGAATAAG	5630	0.0	#DIV/0!	0.0	
1	0	0	AAGGAATCAG	5631	0.0	#DIV/0!	0.0	
0	0	0	AAGGACAAAG	5632	0.0	#DIV/0!	0.0	
1	0	1	AAGGACCATC	5633	#DIV/0!	#DIV/0!	#DIV/0!	
0	0	0	AAGGACCTAA	5634	0.0	#DIV/0!	0.0	
0	0	1	AAGGACGACG	5635	#DIV/0!	#DIV/0!	#DIV/0!	
0	0	1	AAGGACTACT	5636	#DIV/0!	#DIV/0!	#DIV/0!	
0	0	1	AAGGACTGAG	5637	#DIV/0!	#DIV/0!	#DIV/0!	
0	1	0	AAGGAGAAGT	5638	#DIV/0!	0.0	#DIV/0!	
0	1	0	AAGGAGCCAG	5639	#DIV/0!	0.0	#DIV/0!	
0	1	0	AAGGAGGCCC	5640	#DIV/0!	0.0	#DIV/0!	
0	1	0	AAGGAGGGCT	5641	#DIV/0!	0.0	#DIV/0!	
1	0	0	AAGGAGTCTG	5642	0.0	#DIV/0!	0.0	
1	0	0	AAGGAGTGGC	5643	0.0	#DIV/0!	0.0	
1	0	0	AAGGATAATG	5644	0.0	#DIV/0!	0.0	
0	0	1	AAGGATGGTA	5645	#DIV/0!	#DIV/0!	#DIV/0!	
1	0	0	AAGGCAAATT	5646	0.0	#DIV/0!	0.0	
0	0	1	AAGGCAAGAT	5647	#DIV/0!	#DIV/0!	#DIV/0!	
0	0	1	AAGGCCAAGA	5648	#DIV/0!	#DIV/0!	#DIV/0!	
1	0	0	AAGGCCAGCG	5649	0.0	#DIV/0!	0.0	
1	0	0	AAGGCCAGGG	5650	0.0	#DIV/0!	0.0	
1	0	0	AAGGCCGAGC	5651	0.0	#DIV/0!	0.0	
1	0	0	AAGGCTATTT	5652	0.0	#DIV/0!	0.0	
0	1	0	AAGGCTTTTT	5653	#DIV/0!	0.0	#DIV/0!	
0	0	1	AAGGGCCAAT	5654	#DIV/0!	#DIV/0!	#DIV/0!	

Table 5, cont.

1	0	0	AAGGGGTCAG	5655	0.0	#DIV/0!	0.0
0	0	1	AAGGGGTTGG	5656	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AAGGGTATCA	5657	#DIV/0!	0.0	#DIV/0!
0	0	1	AAGGGTATCG	5658	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AAGGTACGAT	5659	#DIV/0!	0.0	#DIV/0!
1	0	0	AAGGTATGGA	5660	0.0	#DIV/0!	0.0
1	0	0	AAGGTCAAGC	5661	0.0	#DIV/0!	0.0
0	1	0	AAGGTCAAGG	5662	#DIV/0!	0.0	#DIV/0!
0	0	1	AAGGTCAGAG	5663	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AAGGTCGAGA	5664	0.0	#DIV/0!	0.0
0	0	1	AAGGTCTTCA	5665	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AAGGTGACAA	5666	#DIV/0!	0.0	#DIV/0!
0	1	0	AAGGTGTCAA	5667	#DIV/0!	0.0	#DIV/0!
1	0	0	AAGGTGTTTT	5668	0.0	#DIV/0!	0.0
0	1	0	AAGGTTCCCG	5669	#DIV/0!	0.0	#DIV/0!
0	0	1	AAGGTTGATC	5670	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AAGGTTGCTC	5671	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AAGTAAATAG	5672	0.0	#DIV/0!	0.0
0	0	1	AAGTAACTGT	5673	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AAGTACGTTG	5674	0.0	#DIV/0!	0.0
1	0	0	AAGTATGACG	5675	0.0	#DIV/0!	0.0
1	0	0	AAGTATGCCC	5676	0.0	#DIV/0!	0.0
1	0	0	AAGTATGCTC	5677	0.0	#DIV/0!	0.0
0	1	0	AAGTCAAAAA	5678	#DIV/0!	0.0	#DIV/0!
0	1	0	AAGTCATAGC	5679	#DIV/0!	0.0	#DIV/0!
0	1	0	AAGTCGAATG	5680	#DIV/0!	0.0	#DIV/0!
1	0	0	AAGTCTACGG	5681	0.0	#DIV/0!	0.0
0	0	1	AAGTCTCTAC	5682	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

0	1	0	AAGTCTGAGC	5683	#DIV/0!	0.0	#DIV/0!
1	0	0	AAGTCTGGTG	5684	0.0	#DIV/0!	0.0
1	0	0	AAGTGAACTC	5685	0.0	#DIV/0!	0.0
0	0	1	AAGTGAGTCA	5686	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AAGTGCAAAG	5687	#DIV/0!	0.0	#DIV/0!
0	0	1	AAGTGCCTGT	5688	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AAGTGGGCCA	5689	#DIV/0!	0.0	#DIV/0!
0	1	0	AAGTGTAGCT	5690	#DIV/0!	0.0	#DIV/0!
0	0	1	AAGTGTGATA	5691	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AAGTGTGTTT	5692	0.0	#DIV/0!	0.0
0	1	0	AAGTGTTACC	5693	#DIV/0!	0.0	#DIV/0!
0	1	0	AAGTTAAAAA	5694	#DIV/0!	0.0	#DIV/0!
0	1	0	AAGTTAGATA	5695	#DIV/0!	0.0	#DIV/0!
0	0	1	AAGTTATGAG	5696	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AAGTTCTCGC	5697	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AAGTTGATAT	5698	0.0	#DIV/0!	0.0
1	0	0	AAGTTGCTAT	5699	0.0	#DIV/0!	0.0
0	1	0	AAGTTGGGAA	5700	#DIV/0!	0.0	#DIV/0!
1	0	0	AAGTTTAATT	5701	0.0	#DIV/0!	0.0
1	0	0	AAGTTTATGG	5702	0.0	#DIV/0!	0.0
0	0	1	AAGTTTCAGC	5703	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AATAAAAGAA	5704	#DIV/0!	0.0	#DIV/0!
1	0	0	AATAAAAGAG	5705	0.0	#DIV/0!	0.0
0	0	1	AATAAAATGA	5706	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AATAAAATTA	5707	#DIV/0!	0.0	#DIV/0!
0	1	0	AATAAACCCT	5708	#DIV/0!	0.0	#DIV/0!
1	0	0	AATAAAGAAT	5709	0.0	#DIV/0!	0.0
0	0	1	AATAAAGTAC	5710	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

0	0	1	AATAAATACC	5711	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AATAACAAAC	5712	#DIV/0!	0.0	#DIV/0!
0	1	0	AATAACAGTT	5713	#DIV/0!	0.0	#DIV/0!
0	1	0	AATAACCTTA	5714	#DIV/0!	0.0	#DIV/0!
0	1	0	AATAAGAGCA	5715	#DIV/0!	0.0	#DIV/0!
1	0	0	AATAAGCCTT	5716	0.0	#DIV/0!	0.0
1	0	0	AATAATAAAA	5717	0.0	#DIV/0!	0.0
0	0	1	AATAATTAGC	5718	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AATACAAATA	5719	#DIV/0!	0.0	#DIV/0!
1	0	0	AATACAAGAT	5720	0.0	#DIV/0!	0.0
0	1	0	AATACAAGGT	5721	#DIV/0!	0.0	#DIV/0!
0	0	1	AATACCATAT	5722	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AATACGTTTA	5723	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AATACTATCA	5724	0.0	#DIV/0!	0.0
0	0	1	AATAGAAAGT	5725	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AATAGACCAG	5726	0.0	#DIV/0!	0.0
0	1	0	AATAGAGATA	5727	#DIV/0!	0.0	#DIV/0!
1	0	0	AATAGCCGGC	5728	0.0	#DIV/0!	0.0
0	1	0	AATAGCCTTG	5729	#DIV/0!	0.0	#DIV/0!
0	1	0	AATAGCTTTT	5730	#DIV/0!	0.0	#DIV/0!
1	0	0	AATAGTCAAC	5731	0.0	#DIV/0!	0.0
0	0	1	AATAGTGAAG	5732	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AATATAAATT	5733	0.0	#DIV/0!	0.0
0	0	1	AATATCAAGC	5734	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AATATCCATA	5735	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AATATGCTGT	5736	0.0	#DIV/0!	0.0
0	0	1	AATATTACAT	5737	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AATATTCAAA	5738	0.0	#DIV/0!	0.0

Table 5, cont.

0	1	0	AATATTCGGG	5739	#DIV/0!	0.0	#DIV/0!
0	1	0	AATATTCTAT	5740	#DIV/0!	0.0	#DIV/0!
1	0	0	AATATTCTCA	5741	0.0	#DIV/0!	0.0
0	1	0	AATCAAAAAC	5742	#DIV/0!	0.0	#DIV/0!
0	0	1	AATCAAATTT	5743	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AATCAACAAC	5744	0.0	#DIV/0!	0.0
0	0	1	AATCAAGCAT	5745	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AATCACCCTT	5746	#DIV/0!	0.0	#DIV/0!
0	0	1	AATCACTGGT	5747	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AATCAGTTTT	5748	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AATCATAACA	5749	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AATCATACGA	5750	#DIV/0!	0.0	#DIV/0!
0	1	0	AATCATCCGT	5751	#DIV/0!	0.0	#DIV/0!
0	0	1	AATCCAAAAT	5752	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AATCCAAACC	5753	0.0	#DIV/0!	0.0
1	0	0	AATCCAAACG	5754	0.0	#DIV/0!	0.0
0	1	0	AATCCAATTG	5755	#DIV/0!	0.0	#DIV/0!
1	0	0	AATCCAGGTT	5756	0.0	#DIV/0!	0.0
1	0	0	AATCCAGTCG	5757	0.0	#DIV/0!	0.0
0	0	1	AATCCAGTGA	5758	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AATCCAGTGG	5759	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AATCCAGTTA	5760	0.0	#DIV/0!	0.0
0	0	1	AATCCGCAAA	5761	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AATCCTGCTT	5762	0.0	#DIV/0!	0.0
1	0	0	AATCCTGTCT	5763	0.0	#DIV/0!	0.0
1	0	0	AATCGAAATA	5764	0.0	#DIV/0!	0.0
0	0	1	AATCGATGAC	5765	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AATCGTCACA	5766	0.0	#DIV/0!	0.0

Table 5, cont.

0	1	0	AATCTAAATA	5767	#DIV/0!	0.0	#DIV/0!
1	0	0	AATCTAGCCA	5768	0.0	#DIV/0!	0.0
0	1	0	AATCTATACG	5769	#DIV/0!	0.0	#DIV/0!
0	0	1	AATCTATTTA	5770	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AATCTCCAGT	5771	0.0	#DIV/0!	0.0
0	0	1	AATCTCTTCC	5772	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AATCTGGATC	5773	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AATCTTATGG	5774	0.0	#DIV/0!	0.0
0	1	0	AATCTTCGAC	5775	#DIV/0!	0.0	#DIV/0!
0	1	0	AATCTTGATC	5776	#DIV/0!	0.0	#DIV/0!
1	0	0	AATCTTTCAC	5777	0.0	#DIV/0!	0.0
0	1	0	AATGAAATGC	5778	#DIV/0!	0.0	#DIV/0!
0	0	1	AATGAACCCA	5779	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AATGAAGAGC	5780	#DIV/0!	0.0	#DIV/0!
0	1	0	AATGAAGTGG	5781	#DIV/0!	0.0	#DIV/0!
0	0	1	AATGAATTGC	5782	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AATGAATTTG	5783	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AATGACGAAT	5784	0.0	#DIV/0!	0.0
1	0	0	AATGACGACA	5785	0.0	#DIV/0!	0.0
1	0	0	AATGACGCAA	5786	0.0	#DIV/0!	0.0
1	0	0	AATGACGCTC	5787	0.0	#DIV/0!	0.0
0	1	0	AATGACTATC	5788	#DIV/0!	0.0	#DIV/0!
1	0	0	AATGACTGTA	5789	0.0	#DIV/0!	0.0
0	1	0	AATGAGCACG	5790	#DIV/0!	0.0	#DIV/0!
0	0	1	AATGAGTAAG	5791	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AATGATACCG	5792	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AATGATCAAT	5793	#DIV/0!	0.0	#DIV/0!
1	0	0	AATGATTCAT	5794	0.0	#DIV/0!	0.0

Table 5, cont.

0	0	1	AATGATTTTT	5795	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AATGCATTTT	5796	0.0	#DIV/0!	0.0
1	0	0	AATGCCGAAG	5797	0.0	#DIV/0!	0.0
0	0	1	AATGCGGCAA	5798	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AATGGAAAAC	5799	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AATGGACAGC	5800	0.0	#DIV/0!	0.0
0	0	1	AATGGAGAAC	5801	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AATGGCCTTG	5802	#DIV/0!	0.0	#DIV/0!
0	1	0	AATGGCGCAC	5803	#DIV/0!	0.0	#DIV/0!
1	0	0	AATGGCTAGC	5804	0.0	#DIV/0!	0.0
0	0	1	AATGGGAAGC	5805	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AATGGTAATT	5806	#DIV/0!	0.0	#DIV/0!
0	1	0	AATGTAGATC	5807	#DIV/0!	0.0	#DIV/0!
0	1	0	AATGTAGGCC	5808	#DIV/0!	0.0	#DIV/0!
1	0	0	AATGTCAACA	5809	0.0	#DIV/0!	0.0
0	1	0	AATGTCACAT	5810	#DIV/0!	0.0	#DIV/0!
0	1	0	AATGTCTGAT	5811	#DIV/0!	0.0	#DIV/0!
1	0	0	AATGTGAAAT	5812	0.0	#DIV/0!	0.0
1	0	0	AATGTGCTAA	5813	0.0	#DIV/0!	0.0
0	0	1	AATGTTACTC	5814	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AATGTTCTGA	5815	#DIV/0!	0.0	#DIV/0!
1	0	0	AATGTTGTCA	5816	0.0	#DIV/0!	0.0
0	1	0	AATTAAGTGG	5817	#DIV/0!	0.0	#DIV/0!
0	0	1	AATTACATTG	5818	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AATTACTAAG	5819	#DIV/0!	0.0	#DIV/0!
1	0	0	AATTACTTCG	5820	0.0	#DIV/0!	0.0
0	1	0	AATTAGATAG	5821	#DIV/0!	0.0	#DIV/0!
0	0	1	AATTATGTGA	5822	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

0	1	0	AATTATTAAA	5823	#DIV/0!	0.0	#DIV/0!
1	0	0	AATTATTAAT	5824	0.0	#DIV/0!	0.0
0	1	0	AATTATTGAT	5825	#DIV/0!	0.0	#DIV/0!
1	0	0	AATTATTTAG	5826	0.0	#DIV/0!	0.0
1	0	0	AATTATTTTT	5827	0.0	#DIV/0!	0.0
1	0	0	AATTCAACAA	5828	0.0	#DIV/0!	0.0
0	1	0	AATTCAACCT	5829	#DIV/0!	0.0	#DIV/0!
0	0	1	AATTCAAGCA	5830	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AATTCCAGTT	5831	0.0	#DIV/0!	0.0
1	0	0	AATTCCCAAA	5832	0.0	#DIV/0!	0.0
0	1	0	AATTCCTGAG	5833	#DIV/0!	0.0	#DIV/0!
0	1	0	AATTCGAGCT	5834	#DIV/0!	0.0	#DIV/0!
0	0	1	AATTCTTCGT	5835	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AATTCTTGCA	5836	#DIV/0!	0.0	#DIV/0!
1	0	0	AATTGAAATT	5837	0.0	#DIV/0!	0.0
0	1	0	AATTGAGATC	5838	#DIV/0!	0.0	#DIV/0!
1	0	0	AATTGAGGCA	5839	0.0	#DIV/0!	0.0
0	1	0	AATTGCAATA	5840	#DIV/0!	0.0	#DIV/0!
0	0	1	AATTGGGCAG	5841	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AATTGGTCAC	5842	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AATTGTACTT	5843	#DIV/0!	0.0	#DIV/0!
0	1	0	AATTGTCGAT	5844	#DIV/0!	0.0	#DIV/0!
0	1	0	AATTGTTAAG	5845	#DIV/0!	0.0	#DIV/0!
1	0	0	AATTTACTGA	5846	0.0	#DIV/0!	0.0
0	1	0	AATTTAGTTC	5847	#DIV/0!	0.0	#DIV/0!
0	1	0	AATTTATTGA	5848	#DIV/0!	0.0	#DIV/0!
1	0	0	AATTTCAGAA	5849	0.0	#DIV/0!	0.0
0	1	0	AATTTCAGCA	5850	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	0	1	AATTTCGAAT	5851	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AATTTCGTGA	5852	0.0	#DIV/0!	0.0
0	0	1	AATTTCTATC	5853	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AATTTGGATC	5854	0.0	#DIV/0!	0.0
0	0	1	AATTTGGCAT	5855	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AATTTGTTCA	5856	#DIV/0!	0.0	#DIV/0!
0	1	0	AATTTTCCAT	5857	#DIV/0!	0.0	#DIV/0!
0	1	0	AATTTTCTCC	5858	#DIV/0!	0.0	#DIV/0!
0	1	0	AATTTTGCCC	5859	#DIV/0!	0.0	#DIV/0!
1	0	0	AATTTTTAAA	5860	0.0	#DIV/0!	0.0
0	0	1	AATTTTTAAC	5861	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AATTTTTAGT	5862	#DIV/0!	0.0	#DIV/0!
1	0	0	AATTTTTCCA	5863	0.0	#DIV/0!	0.0
0	0	1	ACAAAAAGAG	5864	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ACAAAAATTG	5865	0.0	#DIV/0!	0.0
0	0	1	ACAAAACCCA	5866	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ACAAAAGATT	5867	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ACAAAATCAT	5868	0.0	#DIV/0!	0.0
0	1	0	ACAAAATTCC	5869	#DIV/0!	0.0	#DIV/0!
1	0	0	ACAAAATTCT	5870	0.0	#DIV/0!	0.0
0	1	0	ACAAACTTTT	5871	#DIV/0!	0.0	#DIV/0!
1	0	0	ACAAAGACCT	5872	0.0	#DIV/0!	0.0
0	0	1	ACAACAAGGT	5873	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ACAACACTCA	5874	0.0	#DIV/0!	0.0
0	1	0	ACAACCCCCA	5875	#DIV/0!	0.0	#DIV/0!
1	0	0	ACAACGTGGT	5876	0.0	#DIV/0!	0.0
0	0	1	ACAAGACCTT	5877	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ACAAGAGATC	5878	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	0	1	ACAAGATTTG	5879	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ACAAGATTTT	5880	0.0	#DIV/0!	0.0
0	1	0	ACAAGCTATA	5881	#DIV/0!	0.0	#DIV/0!
0	0	1	ACAAGTACCA	5882	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ACAAGTGTTT	5883	#DIV/0!	0.0	#DIV/0!
0	1	0	ACAAGTTTGA	5884	#DIV/0!	0.0	#DIV/0!
1	0	0	ACAATAAACA	5885	#DIV/0!	0.0	#DIV/0!
1	0	0	ACAATAACGC	5886	0.0	#DIV/0!	#DIV/0!
1	0	0	ACAATAGACC	5887	0.0	#DIV/0!	0.0
0	1	0	ACAATATCTG	5888	0.0	#DIV/0!	0.0
1	0	0	ACAATCGATC	5889	#DIV/0!	0.0	#DIV/0!
0	1	0	ACAATGACCG	5890	0.0	#DIV/0!	0.0
1	0	0	ACAATGCCCT	5891	#DIV/0!	0.0	#DIV/0!
0	1	0	ACAATGTTGA	5892	0.0	#DIV/0!	0.0
0	1	0	ACAATTAAAG	5893	#DIV/0!	0.0	#DIV/0!
0	1	0	ACAATTCTTT	5894	#DIV/0!	0.0	#DIV/0!
0	1	0	ACACAAACTT	5895	#DIV/0!	0.0	#DIV/0!
0	0	1	ACACACCAAA	5896	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ACACACCAGC	5897	0.0	#DIV/0!	0.0
0	1	0	ACACCAACAA	5898	0.0	#DIV/0!	0.0
0	1	0	ACACCAACGC	5899	#DIV/0!	0.0	#DIV/0!
0	1	0	ACACCAGCAA	5900	#DIV/0!	0.0	#DIV/0!
0	1	0	ACACCAGCCT	5901	#DIV/0!	0.0	#DIV/0!
1	0	0	ACACCATTGA	5902	0.0	#DIV/0!	0.0
1	0	0	ACACCATTTC	5903	0.0	#DIV/0!	0.0
1	0	0	ACACCCTCCA	5904	0.0	#DIV/0!	0.0
0	1	0	ACACGATGCC	5905	#DIV/0!	0.0	#DIV/0!
0	0	1	ACACGCTTGT	5906	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

0	0	1	ACACGTTCGA	5907	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ACACTAAATC	5908	0.0	#DIV/0!	0.0
1	0	0	ACACTATTCC	5909	0.0	#DIV/0!	0.0
1	0	0	ACACTCACCA	5910	0.0	#DIV/0!	0.0
1	0	0	ACACTCCATC	5911	0.0	#DIV/0!	0.0
0	1	0	ACACTGGCGT	5912	#DIV/0!	0.0	#DIV/0!
0	1	0	ACACTTATAA	5913	#DIV/0!	0.0	#DIV/0!
0	0	1	ACACTTGCCT	5914	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ACACTTTTGT	5915	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ACACTTTTTT	5916	0.0	#DIV/0!	0.0
0	0	1	ACAGAAAGCC	5917	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ACAGAAGCGA	5918	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ACAGAATTAA	5919	0.0	#DIV/0!	0.0
0	0	1	ACAGACCAGG	5920	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ACAGAGAAAA	5921	#DIV/0!	0.0	#DIV/0!
0	1	0	ACAGCAATTT	5922	#DIV/0!	0.0	#DIV/0!
0	1	0	ACAGCCCTCT	5923	#DIV/0!	0.0	#DIV/0!
1	0	0	ACAGCTACCA	5924	0.0	#DIV/0!	0.0
0	0	1	ACAGGATGTC	5925	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ACAGGCACCT	5926	#DIV/0!	0.0	#DIV/0!
0	1	0	ACAGGCCTGA	5927	#DIV/0!	0.0	#DIV/0!
1	0	0	ACAGGGGGCG	5928	0.0	#DIV/0!	0.0
0	1	0	ACAGGTTACA	5929	#DIV/0!	0.0	#DIV/0!
1	0	0	ACAGTGCGAG	5930	0.0	#DIV/0!	0.0
1	0	0	ACAGTTGGGA	5931	0.0	#DIV/0!	0.0
1	0	0	ACATACTTTA	5932	0.0	#DIV/0!	0.0
0	0	1	ACATATGAAT	5933	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ACATCAAAAA	5934	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

1	0	0	ACATCAAGCC	5935	0.0	#DIV/0!	0.0
1	0	0	ACATCAGAAT	5936	0.0	#DIV/0!	0.0
0	0	1	ACATCATCGA	5937	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ACATCATCTA	5938	#DIV/0!	0.0	#DIV/0!
0	1	0	ACATCATTGT	5939	#DIV/0!	0.0	#DIV/0!
0	1	0	ACATCCACCA	5940	#DIV/0!	0.0	#DIV/0!
1	0	0	ACATCCCGGA	5941	0.0	#DIV/0!	0.0
0	0	1	ACATCCTCAA	5942	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ACATCGCCTG	5943	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ACATCGTTTG	5944	#DIV/0!	0.0	#DIV/0!
0	1	0	ACATCTCGTA	5945	#DIV/0!	0.0	#DIV/0!
1	0	0	ACATCTGGTC	5946	0.0	#DIV/0!	0.0
0	0	1	ACATTATTGG	5947	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ACATTCCACA	5948	#DIV/0!	0.0	#DIV/0!
0	1	0	ACATTCTTTC	5949	#DIV/0!	0.0	#DIV/0!
0	0	1	ACATTGACGA	5950	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ACATTGTGTA	5951	#DIV/0!	0.0	#DIV/0!
1	0	0	ACATTTCCAG	5952	0.0	#DIV/0!	0.0
1	0	0	ACATTTCTCA	5953	0.0	#DIV/0!	0.0
0	1	0	ACATTTTTAT	5954	#DIV/0!	0.0	#DIV/0!
0	0	1	ACCAAAATGC	5955	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ACCAAAATTG	5956	#DIV/0!	0.0	#DIV/0!
0	1	0	ACCAAAGAAA	5957	#DIV/0!	0.0	#DIV/0!
1	0	0	ACCAAATTGA	5958	0.0	#DIV/0!	0.0
1	0	0	ACCAACACAT	5959	0.0	#DIV/0!	0.0
1	0	0	ACCAAGATCT	5960	0.0	#DIV/0!	0.0
0	0	1	ACCAAGCAAA	5961	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ACCAAGGCTA	5962	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	0	1	ACCAAGTTGA	5963	#DIV/0!	#DIV/0!	#DIV/0!	
1	0	0	ACCAATAACA	5964	0.0	#DIV/0!	0.0	
1	0	0	ACCAATACTC	5965	0.0	#DIV/0!	0.0	
0	1	0	ACCAATCTGC	5966	#DIV/0!	0.0	#DIV/0!	
0	1	0	ACCAATTCCA	5967	#DIV/0!	0.0	#DIV/0!	
1	0	0	ACCACAATGC	5968	0.0	#DIV/0!	0.0	
0	1	0	ACCACATCAA	5969	#DIV/0!	0.0	#DIV/0!	
0	1	0	ACCACCAGTT	5970	#DIV/0!	0.0	#DIV/0!	
0	0	1	ACCACTCCTT	5971	#DIV/0!	#DIV/0!	#DIV/0!	
0	1	0	ACCACTGTGC	5972	#DIV/0!	0.0	#DIV/0!	
0	0	1	ACCAGAACCA	5973	#DIV/0!	#DIV/0!	#DIV/0!	
0	0	1	ACCAGAATGA	5974	#DIV/0!	#DIV/0!	#DIV/0!	
0	0	1	ACCAGATCTT	5975	#DIV/0!	#DIV/0!	#DIV/0!	
0	1	0	ACCAGCCTCG	5976	#DIV/0!	#DIV/0!	#DIV/0!	
1	0	0	ACCAGGATTG	5977	0.0	#DIV/0!	0.0	
0	0	1	ACCAGGTGTT	5978	#DIV/0!	#DIV/0!	#DIV/0!	
0	1	0	ACCATAGCGG	5979	#DIV/0!	0.0	#DIV/0!	
0	0	1	ACCATCGGTG	5980	#DIV/0!	#DIV/0!	#DIV/0!	
0	0	1	ACCATCGTGT	5981	#DIV/0!	#DIV/0!	#DIV/0!	
0	0	1	ACCATTAAAA	5982	#DIV/0!	#DIV/0!	#DIV/0!	
1	0	0	ACCATTAAAT	5983	0.0	#DIV/0!	0.0	
0	0	1	ACCATTCAAG	5984	#DIV/0!	#DIV/0!	#DIV/0!	
0	0	1	ACCCAAGTGA	5985	#DIV/0!	#DIV/0!	#DIV/0!	
0	1	0	ACCCAGGAGT	5986	#DIV/0!	0.0	#DIV/0!	
0	0	1	ACCCATAGAT	5987	#DIV/0!	#DIV/0!	#DIV/0!	
0	0	1	ACCCCAAAGC	5988	#DIV/0!	#DIV/0!	#DIV/0!	
0	0	1	ACCCCAAATG	5989	#DIV/0!	#DIV/0!	#DIV/0!	
0	0	1	ACCCCAACCT	5990	#DIV/0!	#DIV/0!	#DIV/0!	

Table 5, cont.

0	0	1	ACCCCACTCA	5991	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ACCCCAGAAG	5992	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ACCCCGTCAG	5993	0.0	#DIV/0!	0.0
1	0	0	ACCCGATGCT	5994	0.0	#DIV/0!	0.0
1	0	0	ACCCTACTGC	5995	0.0	#DIV/0!	0.0
0	1	0	ACCCTATGTA	5996	#DIV/0!	0.0	#DIV/0!
1	0	0	ACCGAACTTA	5997	0.0	#DIV/0!	0.0
1	0	0	ACCGACGCTC	5998	0.0	#DIV/0!	0.0
0	1	0	ACCGAGAGAT	5999	#DIV/0!	0.0	#DIV/0!
0	1	0	ACCGAGTCCG	6000	#DIV/0!	0.0	#DIV/0!
0	1	0	ACCGATACAC	6001	#DIV/0!	0.0	#DIV/0!
0	0	1	ACCGATGGTA	6002	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ACCGCAAGAC	6003	0.0	#DIV/0!	0.0
0	0	1	ACCGCAATCA	6004	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ACCGCCGCTC	6005	#DIV/0!	0.0	#DIV/0!
0	0	1	ACCGCTAGTG	6006	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ACCGCTCTGG	6007	0.0	#DIV/0!	0.0
0	0	1	ACCGCTTTCT	6008	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ACCGGGCGCT	6009	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ACCGGTGCCC	6010	0.0	#DIV/0!	0.0
1	0	0	ACCGTACTTT	6011	0.0	#DIV/0!	0.0
1	0	0	ACCGTAGCGT	6012	0.0	#DIV/0!	0.0
1	0	0	ACCGTCAAAC	6013	0.0	#DIV/0!	0.0
1	0	0	ACCGTCAAGT	6014	0.0	#DIV/0!	0.0
1	0	0	ACCGTCCTTC	6015	0.0	#DIV/0!	0.0
0	1	0	ACCGTCGAAG	6016	#DIV/0!	0.0	#DIV/0!
0	0	1	ACCGTCGATT	6017	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ACCGTGGCGT	6018	0.0	#DIV/0!	0.0

Table 5, cont.

1	0	0	ACCGTTGGTG	6019	0.0	#DIV/0!	0.0
0	0	1	ACCTAAAGAA	6020	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ACCTACCTTC	6021	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ACCTAGCATA	6022	#DIV/0!	0.0	#DIV/0!
1	0	0	ACCTATAAAA	6023	0.0	#DIV/0!	0.0
1	0	0	ACCTATTCAT	6024	0.0	#DIV/0!	0.0
0	0	0	ACCTCAAAAA	6025	0.0	#DIV/0!	0.0
0	1	0	ACCTCCAAGC	6026	#DIV/0!	0.0	#DIV/0!
0	0	1	ACCTCCGTTT	6027	#DIV/0!	#DIV/0!	#DIV/0!
1	1	0	ACCTCGGCTT	6028	#DIV/0!	0.0	#DIV/0!
0	0	0	ACCTGAATGG	6029	0.0	#DIV/0!	0.0
0	1	0	ACCTGGATAA	6030	#DIV/0!	0.0	#DIV/0!
0	0	1	ACCTGTTGCT	6031	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ACCTGTTGGT	6032	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ACCTTAAAAA	6033	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ACCTTACATT	6034	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ACCTTACGGG	6035	0.0	#DIV/0!	0.0
0	1	0	ACCTTCAGCA	6036	#DIV/0!	0.0	#DIV/0!
0	0	1	ACCTTCATTG	6037	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ACCTTGAAAA	6038	0.0	#DIV/0!	0.0
0	0	1	ACCTTGAAAG	6039	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ACCTTGGGTT	6040	#DIV/0!	0.0	#DIV/0!
1	0	0	ACCTTGGTCA	6041	0.0	#DIV/0!	0.0
0	0	1	ACCTTTGCAC	6042	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ACCTTTTCAT	6043	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ACGAAAATTT	6044	0.0	#DIV/0!	0.0
1	0	0	ACGAAAGTGG	6045	0.0	#DIV/0!	0.0
1	0	0	ACGAAGAAAT	6046	0.0	#DIV/0!	0.0

Table 5, cont.

0	1	0	ACGAAGCGCT	6047	#DIV/0!	0.0	#DIV/0!
0	0	1	ACGAAGCTAG	6048	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ACGAAGCTCA	6049	0.0	#DIV/0!	0.0
1	0	0	ACGAAGCTGG	6050	0.0	#DIV/0!	0.0
0	0	1	ACGAAGGATT	6051	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ACGAAGTGAG	6052	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ACGAAGTTGT	6053	0.0	#DIV/0!	0.0
0	1	0	ACGAATCACA	6054	#DIV/0!	0.0	#DIV/0!
1	0	0	ACGAATGAGG	6055	0.0	#DIV/0!	0.0
0	0	1	ACGAATGCTG	6056	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ACGAATTATA	6057	#DIV/0!	0.0	#DIV/0!
0	0	1	ACGAATTGTT	6058	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ACGACAACTC	6059	0.0	#DIV/0!	0.0
1	0	0	ACGACAGTAA	6060	0.0	#DIV/0!	0.0
0	1	0	ACGACGATGA	6061	#DIV/0!	0.0	#DIV/0!
1	0	0	ACGAGCTCCG	6062	0.0	#DIV/0!	0.0
0	1	0	ACGAGGAAAA	6063	#DIV/0!	0.0	#DIV/0!
1	0	0	ACGAGGATAG	6064	0.0	#DIV/0!	0.0
0	1	0	ACGATAAATC	6065	#DIV/0!	0.0	#DIV/0!
1	0	0	ACGATATCGT	6066	0.0	#DIV/0!	0.0
0	0	1	ACGATGAAAG	6067	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ACGATGAAGG	6068	0.0	#DIV/0!	0.0
0	1	0	ACGATGCTTT	6069	#DIV/0!	0.0	#DIV/0!
0	0	1	ACGATTCGCC	6070	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ACGCAATGGA	6071	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ACGCAGATTT	6072	#DIV/0!	0.0	#DIV/0!
0	1	0	ACGCATATTA	6073	#DIV/0!	0.0	#DIV/0!
0	1	0	ACGCATTGTC	6074	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	1	0	ACGCCAGCTC	6075	#DIV/0!	0.0	#DIV/0!
0	0	1	ACGCCGCTCA	6076	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ACGCCTGTGT	6077	0.0	#DIV/0!	0.0
0	1	0	ACGCGAATCT	6078	#DIV/0!	0.0	#DIV/0!
0	1	0	ACGCTCTTTT	6079	#DIV/0!	0.0	#DIV/0!
1	0	0	ACGGAACAAA	6080	0.0	#DIV/0!	0.0
1	0	0	ACGGAAGACT	6081	0.0	#DIV/0!	0.0
1	0	0	ACGGAAGCCC	6082	0.0	#DIV/0!	0.0
0	0	1	ACGGACATAG	6083	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ACGGAGTTGA	6084	#DIV/0!	0.0	#DIV/0!
1	0	0	ACGGATATTA	6085	0.0	#DIV/0!	0.0
0	1	0	ACGGCAAACT	6086	#DIV/0!	0.0	#DIV/0!
0	0	1	ACGGCAGAGA	6087	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ACGGCAGCAA	6088	#DIV/0!	0.0	#DIV/0!
0	0	1	ACGGCCAAGT	6089	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ACGGCCTTAC	6090	0.0	#DIV/0!	0.0
1	0	0	ACGGCTCTCA	6091	0.0	#DIV/0!	0.0
0	0	1	ACGGGTCGCC	6092	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ACGGGTTATG	6093	0.0	#DIV/0!	0.0
0	1	0	ACGGTAATCA	6094	#DIV/0!	0.0	#DIV/0!
0	0	1	ACGGTATATT	6095	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ACGGTCAATA	6096	0.0	#DIV/0!	0.0
0	0	1	ACGTACGTTT	6097	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ACGTATATAC	6098	#DIV/0!	0.0	#DIV/0!
0	1	0	ACGTATTTCG	6099	#DIV/0!	0.0	#DIV/0!
0	1	0	ACGTCCTTTT	6100	#DIV/0!	0.0	#DIV/0!
0	0	1	ACGTCGCAGC	6101	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ACGTCTCATA	6102	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

1	0	0	ACGTCTTTCA	6103	0.0	#DIV/0!	0.0
0	1	0	ACGTGACTTG	6104	#DIV/0!	0.0	#DIV/0!
0	0	1	ACGTGTGTAA	6105	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ACGTGTTAAT	6106	0.0	#DIV/0!	0.0
0	1	0	ACGTTATCAC	6107	#DIV/0!	0.0	#DIV/0!
0	0	1	ACGTTCCGTT	6108	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ACGTTCCTCA	6109	0.0	#DIV/0!	0.0
0	1	0	ACGTTCCTTT	6110	#DIV/0!	0.0	#DIV/0!
0	1	0	ACGTTCTTGT	6111	#DIV/0!	0.0	#DIV/0!
0	1	0	ACGTTCTTTC	6112	#DIV/0!	0.0	#DIV/0!
1	0	0	ACTAAAACTA	6113	0.0	#DIV/0!	0.0
0	0	1	ACTAAACCCC	6114	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ACTAAACTGG	6115	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ACTAAATCAA	6116	#DIV/0!	0.0	#DIV/0!
1	0	0	ACTAAATCAC	6117	0.0	#DIV/0!	0.0
0	1	0	ACTAAATGAC	6118	#DIV/0!	0.0	#DIV/0!
1	0	0	ACTAACTTTG	6119	0.0	#DIV/0!	0.0
0	1	0	ACTAAGATGA	6120	#DIV/0!	0.0	#DIV/0!
0	1	0	ACTAAGGAGA	6121	#DIV/0!	0.0	#DIV/0!
1	0	0	ACTAATTCAA	6122	0.0	#DIV/0!	0.0
1	0	0	ACTACAACAG	6123	0.0	#DIV/0!	0.0
0	0	1	ACTACAATTT	6124	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ACTACCTGAA	6125	0.0	#DIV/0!	0.0
0	1	0	ACTACTGAAA	6126	#DIV/0!	0.0	#DIV/0!
1	0	0	ACTACTGGTA	6127	0.0	#DIV/0!	0.0
0	1	0	ACTAGAAATT	6128	#DIV/0!	0.0	#DIV/0!
1	0	0	ACTAGAATCT	6129	0.0	#DIV/0!	0.0
1	0	0	ACTAGAATTG	6130	0.0	#DIV/0!	0.0

Table 5, cont.

1	0	0	ACTAGGATTT	6131	0.0	#DIV/0!	0.0
0	1	0	ACTAGTAGTA	6132	#DIV/0!	0.0	#DIV/0!
0	0	1	ACTATCGAGG	6133	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ACTATGAATA	6134	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ACTATTATGA	6135	#DIV/0!	0.0	#DIV/0!
0	1	0	ACTATTATGG	6136	#DIV/0!	0.0	#DIV/0!
1	0	0	ACTCAATACT	6137	0.0	#DIV/0!	0.0
0	0	1	ACTCACTTCA	6138	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ACTCAGAAAG	6139	0.0	#DIV/0!	0.0
0	1	0	ACTCAGATTC	6140	#DIV/0!	0.0	#DIV/0!
0	1	0	ACTCAGTTTC	6141	#DIV/0!	0.0	#DIV/0!
1	0	0	ACTCCATTAA	6142	0.0	#DIV/0!	0.0
0	0	1	ACTCCATTGA	6143	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ACTCCTACAT	6144	0.0	#DIV/0!	0.0
0	0	1	ACTCGAGTTG	6145	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ACTCGATTAC	6146	#DIV/0!	0.0	#DIV/0!
0	1	0	ACTCGCATTT	6147	#DIV/0!	0.0	#DIV/0!
0	1	0	ACTCGTCCCC	6148	#DIV/0!	0.0	#DIV/0!
0	0	1	ACTCTAACTT	6149	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ACTCTACTGG	6150	#DIV/0!	0.0	#DIV/0!
1	0	0	ACTCTATCGG	6151	0.0	#DIV/0!	0.0
0	1	0	ACTCTCATTA	6152	#DIV/0!	0.0	#DIV/0!
1	0	0	ACTCTCTTGA	6153	0.0	#DIV/0!	0.0
0	1	0	ACTCTTGTAA	6154	#DIV/0!	0.0	#DIV/0!
0	1	0	ACTCTTTCAT	6155	#DIV/0!	0.0	#DIV/0!
0	1	0	ACTGAAACGA	6156	#DIV/0!	0.0	#DIV/0!
0	0	1	ACTGAACGTA	6157	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ACTGACTAAG	6158	0.0	#DIV/0!	0.0

Table 5, cont.

0	1	0	ACTGAGTTTT	6159	#DIV/0!	0.0	#DIV/0!
0	1	0	ACTGATAGAT	6160	#DIV/0!	0.0	#DIV/0!
0	1	0	ACTGATATAT	6161	#DIV/0!	0.0	#DIV/0!
1	0	0	ACTGATGATG	6162	0.0	#DIV/0!	0.0
0	1	0	ACTGCACTAA	6163	#DIV/0!	0.0	#DIV/0!
0	1	0	ACTGCAGACA	6164	#DIV/0!	0.0	#DIV/0!
1	0	0	ACTGCATTAG	6165	0.0	#DIV/0!	0.0
1	0	0	ACTGCATTTG	6166	0.0	#DIV/0!	0.0
0	0	1	ACTGCCTAAT	6167	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ACTGCCTTAC	6168	0.0	#DIV/0!	0.0
0	0	1	ACTGCTAGAC	6169	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ACTGCTATTC	6170	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ACTGCTGCCT	6171	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ACTGCTTCAA	6172	#DIV/0!	0.0	#DIV/0!
1	0	0	ACTGGAAACC	6173	0.0	#DIV/0!	0.0
0	0	1	ACTGGCTAAA	6174	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ACTGGGGCAG	6175	0.0	#DIV/0!	0.0
0	1	0	ACTGGTATTG	6176	#DIV/0!	0.0	#DIV/0!
0	0	1	ACTGGTCAAT	6177	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ACTGGTTTTG	6178	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ACTGTACGTT	6179	0.0	#DIV/0!	0.0
0	0	1	ACTGTACTCT	6180	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ACTGTCCATT	6181	0.0	#DIV/0!	0.0
0	1	0	ACTGTCGCTG	6182	#DIV/0!	0.0	#DIV/0!
1	0	0	ACTGTGAAAC	6183	0.0	#DIV/0!	0.0
0	0	1	ACTGTGAAAT	6184	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ACTGTGCTGA	6185	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ACTGTGGGTT	6186	0.0	#DIV/0!	0.0

Table 5, cont.

1	0	0	ACTGTTTCAG	6187	0.0	#DIV/0!	0.0
0	1	0	ACTTAACAAT	6188	#DIV/0!	0.0	#DIV/0!
0	0	1	ACTTACAAAA	6189	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ACTTACAACC	6190	0.0	#DIV/0!	0.0
0	0	1	ACTTACCCCT	6191	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ACTTACTCGT	6192	#DIV/0!	0.0	#DIV/0!
0	1	0	ACTTAGTATT	6193	#DIV/0!	0.0	#DIV/0!
0	1	0	ACTTAGTTTG	6194	#DIV/0!	0.0	#DIV/0!
0	1	0	ACTTATGATT	6195	#DIV/0!	0.0	#DIV/0!
0	1	0	ACTTATTTTT	6196	#DIV/0!	0.0	#DIV/0!
0	1	0	ACTTCAAATG	6197	#DIV/0!	0.0	#DIV/0!
0	1	0	ACTTCAACTA	6198	#DIV/0!	0.0	#DIV/0!
1	0	0	ACTTCAATTC	6199	0.0	#DIV/0!	0.0
0	1	0	ACTTCACGTT	6200	#DIV/0!	0.0	#DIV/0!
0	0	1	ACTTCAGAAA	6201	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ACTTCAGCAG	6202	#DIV/0!	0.0	#DIV/0!
0	1	0	ACTTCAGCGT	6203	#DIV/0!	0.0	#DIV/0!
1	0	0	ACTTCATTAC	6204	0.0	#DIV/0!	0.0
0	1	0	ACTTCCACGT	6205	#DIV/0!	0.0	#DIV/0!
1	0	0	ACTTCCCGCA	6206	0.0	#DIV/0!	0.0
0	0	1	ACTTCCGGTG	6207	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ACTTCGTTCG	6208	#DIV/0!	0.0	#DIV/0!
0	0	1	ACTTCTGGAC	6209	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ACTTCTTGAG	6210	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ACTTCTTGGT	6211	#DIV/0!	0.0	#DIV/0!
0	0	1	ACTTGAACGT	6212	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ACTTGACAAG	6213	#DIV/0!	0.0	#DIV/0!
0	1	0	ACTTGACTGT	6214	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	1	0	ACTTGCAATA	6215	#DIV/0!	0.0	#DIV/0!
1	0	0	ACTTGGAAAA	6216	0.0	#DIV/0!	0.0
0	1	0	ACTTGGATCT	6217	#DIV/0!	0.0	#DIV/0!
0	1	0	ACTTGTGTAA	6218	#DIV/0!	0.0	#DIV/0!
1	0	0	ACTTGTTGAT	6219	0.0	#DIV/0!	0.0
1	0	0	ACTTTAAAGA	6220	0.0	#DIV/0!	0.0
0	1	0	ACTTTAAATC	6221	#DIV/0!	0.0	#DIV/0!
0	0	1	ACTTTAATAT	6222	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ACTTTATTTC	6223	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ACTTTCTTCG	6224	#DIV/0!	0.0	#DIV/0!
0	0	1	ACTTTGATTG	6225	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ACTTTGGCTA	6226	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ACTTTTAATC	6227	#DIV/0!	0.0	#DIV/0!
0	1	0	ACTTTTAGAA	6228	#DIV/0!	0.0	#DIV/0!
0	0	1	ACTTTTCAGT	6229	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ACTTTTGAAT	6230	#DIV/0!	0.0	#DIV/0!
1	0	0	ACTTTTTTGG	6231	0.0	#DIV/0!	0.0
0	1	0	ACTTTTTTTA	6232	#DIV/0!	0.0	#DIV/0!
0	0	1	AGAAAAAAAG	6233	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AGAAAAAACC	6234	0.0	#DIV/0!	0.0
1	0	0	AGAAAAAAGA	6235	0.0	#DIV/0!	0.0
1	0	0	AGAAAAAATG	6236	0.0	#DIV/0!	0.0
1	0	0	AGAAAAACTG	6237	0.0	#DIV/0!	0.0
1	0	0	AGAAAAATAG	6238	0.0	#DIV/0!	0.0
1	0	0	AGAAAAATGT	6239	0.0	#DIV/0!	0.0
0	0	1	AGAAAACGAG	6240	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AGAAAAGATG	6241	0.0	#DIV/0!	0.0
1	0	0	AGAAAAGTGT	6242	0.0	#DIV/0!	0.0

Table 5, cont.

0	1	0	AGAAACTTAA	6243	#DIV/0!	0.0	#DIV/0!
0	0	1	AGAAACTTCT	6244	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGAAAGTAAG	6245	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGAAATGCTG	6246	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AGAAATGTGT	6247	#DIV/0!	0.0	#DIV/0!
0	0	1	AGAACAAACT	6248	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AGAACATCCA	6249	#DIV/0!	0.0	#DIV/0!
0	0	1	AGAACCTCAC	6250	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGAACCTTTC	6251	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AGAACTGGAC	6252	#DIV/0!	0.0	#DIV/0!
0	0	1	AGAACTTGAA	6253	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AGAACTTGAT	6254	0.0	#DIV/0!	0.0
0	0	1	AGAAGAACGG	6255	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AGAAGAAGAG	6256	#DIV/0!	0.0	#DIV/0!
1	0	0	AGAAGACAAG	6257	0.0	#DIV/0!	0.0
1	0	0	AGAAGAGATA	6258	0.0	#DIV/0!	0.0
1	0	0	AGAAGAGCAC	6259	0.0	#DIV/0!	0.0
1	0	0	AGAAGAGGCG	6260	0.0	#DIV/0!	0.0
0	1	0	AGAAGAGGTG	6261	#DIV/0!	0.0	#DIV/0!
0	0	1	AGAAGATGGA	6262	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGAAGCACAA	6263	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGAAGCACCC	6264	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AGAAGCACTG	6265	0.0	#DIV/0!	0.0
0	0	1	AGAAGCCAGA	6266	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGAAGCCAGT	6267	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AGAAGCCGTT	6268	#DIV/0!	0.0	#DIV/0!
0	0	1	AGAAGGACCC	6269	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AGAAGGCATA	6270	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	0	1	AGAAGGCTCC	6271	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGAAGGGAAA	6272	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGAAGTCAAA	6273	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AGAAGTGGGT	6274	#DIV/0!	0.0	#DIV/0!
0	1	0	AGAAGTGTAT	6275	#DIV/0!	0.0	#DIV/0!
1	0	0	AGAATAATGG	6276	0.0	#DIV/0!	0.0
1	0	0	AGAATACATT	6277	0.0	#DIV/0!	0.0
0	0	1	AGAATACCGT	6278	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AGAATATGGT	6279	0.0	#DIV/0!	0.0
0	1	0	AGAATCACGT	6280	#DIV/0!	0.0	#DIV/0!
1	0	0	AGAATTAGTA	6281	0.0	#DIV/0!	0.0
1	0	0	AGAATTCAAA	6282	0.0	#DIV/0!	0.0
1	0	0	AGAATTCAGA	6283	0.0	#DIV/0!	0.0
0	0	1	AGAATTCATA	6284	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGAATTGCTC	6285	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGAATTGTTA	6286	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGACAAACCC	6287	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AGACAAACTT	6288	0.0	#DIV/0!	0.0
1	0	0	AGACAAATTG	6289	0.0	#DIV/0!	0.0
0	1	0	AGACAACCGA	6290	#DIV/0!	0.0	#DIV/0!
0	0	1	AGACAACCTG	6291	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGACAATTGG	6292	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AGACACACTG	6293	0.0	#DIV/0!	0.0
0	1	0	AGACACGAAG	6294	#DIV/0!	0.0	#DIV/0!
1	0	0	AGACATACTG	6295	0.0	#DIV/0!	0.0
1	0	0	AGACCAAACT	6296	0.0	#DIV/0!	0.0
0	0	1	AGACCAAGCC	6297	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGACCAATCC	6298	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

0	0	1	AGACCACTCC	6299	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AGACCAGAAA	6300	0.0	#DIV/0!	0.0
0	0	1	AGACCATTCC	6301	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGACCATTGA	6302	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGACCATTGG	6303	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGACCATTGT	6304	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGACCCATTT	6305	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AGACGACATT	6306	#DIV/0!	0.0	#DIV/0!
0	0	1	AGACGATGTC	6307	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AGACGCCCGC	6308	#DIV/0!	0.0	#DIV/0!
0	0	1	AGACTAACTG	6309	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGACTACGGA	6310	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGACTGCCAC	6311	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGACTTAGTA	6312	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGAGAACAAG	6313	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AGAGAAGTGG	6314	#DIV/0!	0.0	#DIV/0!
0	1	0	AGAGAATACC	6315	#DIV/0!	0.0	#DIV/0!
0	0	1	AGAGAATGCG	6316	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AGAGACAGAG	6317	0.0	#DIV/0!	0.0
0	0	1	AGAGACGGCA	6318	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AGAGAGAATG	6319	#DIV/0!	0.0	#DIV/0!
1	0	0	AGAGAGATCG	6320	0.0	#DIV/0!	0.0
0	0	1	AGAGAGCTAC	6321	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AGAGAGGGAA	6322	#DIV/0!	0.0	#DIV/0!
1	0	0	AGAGATGAAT	6323	0.0	#DIV/0!	0.0
0	1	0	AGAGCAGAAG	6324	#DIV/0!	0.0	#DIV/0!
0	0	1	AGAGCTATAA	6325	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AGAGCTTGGG	6326	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

1	0	0	AGAGGAACTG	6327	0.0	#DIV/0!	0.0	
0	0	1	AGAGGAATAA	6328	#DIV/0!	#DIV/0!	#DIV/0!	
1	0	0	AGAGGAGCAC	6329	0.0	#DIV/0!	0.0	
0	0	1	AGAGGATACT	6330	#DIV/0!	#DIV/0!	#DIV/0!	
1	0	0	AGAGGCTGGA	6331	0.0	#DIV/0!	0.0	
1	0	0	AGAGGCTTTT	6332	0.0	#DIV/0!	0.0	
0	0	1	AGAGGGCCTA	6333	#DIV/0!	#DIV/0!	#DIV/0!	
0	0	1	AGAGGGTGAT	6334	#DIV/0!	#DIV/0!	#DIV/0!	
1	0	0	AGAGGTGATC	6335	0.0	#DIV/0!	0.0	
0	1	0	AGAGTAGCAA	6336	#DIV/0!	0.0	#DIV/0!	
1	0	0	AGAGTCTTGA	6337	0.0	#DIV/0!	0.0	
0	0	1	AGAGTGCAAG	6338	#DIV/0!	#DIV/0!	#DIV/0!	
0	0	1	AGAGTGTTCA	6339	#DIV/0!	#DIV/0!	#DIV/0!	
0	1	0	AGATAAACTG	6340	#DIV/0!	0.0	#DIV/0!	
0	0	1	AGATAAATTC	6341	#DIV/0!	#DIV/0!	#DIV/0!	
0	0	1	AGATAAGTTT	6342	#DIV/0!	#DIV/0!	#DIV/0!	
0	1	0	AGATAGCAAA	6343	#DIV/0!	0.0	#DIV/0!	
0	1	0	AGATAGCGAA	6344	#DIV/0!	0.0	#DIV/0!	
1	0	0	AGATAGTAAG	6345	0.0	#DIV/0!	0.0	
1	0	0	AGATCAAAAA	6346	0.0	#DIV/0!	0.0	
0	0	1	AGATCCTCAT	6347	#DIV/0!	#DIV/0!	#DIV/0!	
0	1	0	AGATGAAACT	6348	#DIV/0!	0.0	#DIV/0!	
1	0	0	AGATGAATTT	6349	0.0	#DIV/0!	0.0	
0	0	1	AGATGACTTC	6350	#DIV/0!	#DIV/0!	#DIV/0!	
0	0	1	AGATGATCGT	6351	#DIV/0!	#DIV/0!	#DIV/0!	
0	0	1	AGATGATGAA	6352	#DIV/0!	#DIV/0!	#DIV/0!	
0	0	1	AGATGCAAAA	6353	#DIV/0!	#DIV/0!	#DIV/0!	
0	1	0	AGATGGACTT	6354	#DIV/0!	0.0	#DIV/0!	

Table 5, cont.

0	0	1	AGATGGATCC	6355	#DIV/0!	#DIV/0!	#DIV/0!	
0	0	1	AGATGTGCAA	6356	#DIV/0!	#DIV/0!	#DIV/0!	
0	0	1	AGATGTTATC	6357	#DIV/0!	#DIV/0!	#DIV/0!	
1	0	0	AGATTAAGAA	6358	0.0	#DIV/0!	0.0	
0	0	1	AGATTACAAA	6359	#DIV/0!	#DIV/0!	#DIV/0!	
1	0	0	AGATTACGAC	6360	0.0	#DIV/0!	0.0	
0	0	1	AGATTCAAAG	6361	#DIV/0!	#DIV/0!	#DIV/0!	
0	0	1	AGATTCTGCG	6362	#DIV/0!	#DIV/0!	#DIV/0!	
0	0	1	AGATTGACTC	6363	#DIV/0!	#DIV/0!	#DIV/0!	
0	0	1	AGATTGCCCA	6364	#DIV/0!	#DIV/0!	#DIV/0!	
0	1	0	AGATTGGATG	6365	#DIV/0!	0.0	#DIV/0!	
1	0	0	AGATTGTATT	6366	0.0	#DIV/0!	0.0	
1	0	0	AGATTTGATG	6367	0.0	#DIV/0!	0.0	
1	0	0	AGATTTTTTT	6368	0.0	#DIV/0!	0.0	
0	0	1	AGCAAAAAGA	6369	#DIV/0!	#DIV/0!	#DIV/0!	
0	0	1	AGCAAACTGC	6370	#DIV/0!	#DIV/0!	#DIV/0!	
1	0	0	AGCAACCAGC	6371	0.0	#DIV/0!	0.0	
1	0	0	AGCAACGAAG	6372	0.0	#DIV/0!	0.0	
0	0	1	AGCAATAAAA	6373	#DIV/0!	#DIV/0!	#DIV/0!	
0	1	0	AGCAATGGAA	6374	#DIV/0!	0.0	#DIV/0!	
1	0	0	AGCAATGTGG	6375	0.0	#DIV/0!	0.0	
0	0	1	AGCACCATAG	6376	#DIV/0!	#DIV/0!	#DIV/0!	
1	0	0	AGCACGGTGT	6377	0.0	#DIV/0!	0.0	
0	1	0	AGCACTGAAG	6378	#DIV/0!	0.0	#DIV/0!	
0	0	1	AGCACTGGTG	6379	#DIV/0!	#DIV/0!	#DIV/0!	
0	0	1	AGCAGATTGA	6380	#DIV/0!	#DIV/0!	#DIV/0!	
0	0	1	AGCAGCACAA	6381	#DIV/0!	#DIV/0!	#DIV/0!	
0	0	1	AGCAGCTCAG	6382	#DIV/0!	#DIV/0!	#DIV/0!	

Table 5, cont.

0	1	0	AGCAGGAACA	6383	#DIV/0!	0.0	#DIV/0!
0	0	1	AGCAGTATGC	6384	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AGCAGTGAAG	6385	0.0	#DIV/0!	0.0
1	0	0	AGCAGTGGCC	6386	0.0	#DIV/0!	0.0
1	0	0	AGCAGTTCAC	6387	0.0	#DIV/0!	0.0
0	0	1	AGCAGTTTCT	6388	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGCATAAAAG	6389	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGCATAAAGA	6390	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGCATACAAG	6391	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AGCATCAAGC	6392	0.0	#DIV/0!	0.0
0	0	1	AGCATTACCA	6393	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AGCATTAGAT	6394	#DIV/0!	0.0	#DIV/0!
0	0	1	AGCATTTGAT	6395	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGCATTTGCC	6396	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGCATTTTTG	6397	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGCCAAAAAC	6398	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGCCAAACTG	6399	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AGCCAATTCG	6400	#DIV/0!	0.0	#DIV/0!
1	0	0	AGCCAGATCA	6401	0.0	#DIV/0!	0.0
0	1	0	AGCCATCTGT	6402	#DIV/0!	0.0	#DIV/0!
0	1	0	AGCCATTAAC	6403	#DIV/0!	0.0	#DIV/0!
0	0	1	AGCCATTGCT	6404	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGCCATTTTG	6405	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AGCCCAAACT	6406	0.0	#DIV/0!	0.0
1	0	0	AGCCCAGCTC	6407	0.0	#DIV/0!	0.0
0	0	1	AGCCCGATTC	6408	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AGCCCTCTTA	6409	0.0	#DIV/0!	0.0
0	0	1	AGCCGAGATC	6410	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

0	1	0	AGCCTAAGTT	6411	#DIV/0!	0.0	#DIV/0!
1	0	0	AGCCTATTGA	6412	0.0	#DIV/0!	0.0
0	0	1	AGCGAATGTG	6413	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGCGACTGAC	6414	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGCGCCATTG	6415	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AGCGCTTTAA	6416	0.0	#DIV/0!	0.0
1	0	0	AGCGGATGTT	6417	0.0	#DIV/0!	0.0
0	0	1	AGCGGATTGA	6418	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGCGGGTCTT	6419	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGCGGGTGCT	6420	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AGCGGTGTTA	6421	0.0	#DIV/0!	0.0
1	0	0	AGCGTATTAG	6422	0.0	#DIV/0!	0.0
0	0	1	AGCGTCAAAT	6423	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGCGTGACGT	6424	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AGCTAAAACA	6425	0.0	#DIV/0!	0.0
0	1	0	AGCTAAACTG	6426	#DIV/0!	0.0	#DIV/0!
0	1	0	AGCTAAATAG	6427	#DIV/0!	0.0	#DIV/0!
1	0	0	AGCTAACATT	6428	0.0	#DIV/0!	0.0
0	1	0	AGCTAGAACG	6429	#DIV/0!	0.0	#DIV/0!
0	1	0	AGCTAGGCAT	6430	#DIV/0!	0.0	#DIV/0!
0	0	1	AGCTATAAAC	6431	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGCTATGATG	6432	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AGCTCCGCCA	6433	0.0	#DIV/0!	0.0
1	0	0	AGCTCGGCAT	6434	0.0	#DIV/0!	0.0
0	0	1	AGCTGAAAAC	6435	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AGCTGAACTA	6436	#DIV/0!	0.0	#DIV/0!
1	0	0	AGCTGAGATT	6437	0.0	#DIV/0!	0.0
0	1	0	AGCTGTGCTG	6438	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	0	1	AGCTTGGCGT	6439	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AGCTTTAGCC	6440	#DIV/0!	0.0	#DIV/0!
0	0	1	AGCTTTTACT	6441	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AGGAAAAAAC	6442	#DIV/0!	0.0	#DIV/0!
0	0	1	AGGAAAATGT	6443	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AGGAAACAAG	6444	#DIV/0!	0.0	#DIV/0!
1	0	0	AGGAAAGAAC	6445	0.0	#DIV/0!	0.0
0	0	1	AGGAACGACT	6446	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AGGAACGGTT	6447	0.0	#DIV/0!	0.0
0	0	1	AGGAACTTAA	6448	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AGGAAGATGA	6449	0.0	#DIV/0!	0.0
0	0	1	AGGAAGATGT	6450	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGGAAGTTCT	6451	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGGAATCTTG	6452	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AGGAATGGGT	6453	#DIV/0!	0.0	#DIV/0!
1	0	0	AGGACAAATC	6454	0.0	#DIV/0!	0.0
0	1	0	AGGACACATC	6455	#DIV/0!	0.0	#DIV/0!
0	0	1	AGGACATTGG	6456	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGGACCATCC	6457	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AGGACCGTCT	6458	0.0	#DIV/0!	0.0
0	0	1	AGGACGGCGG	6459	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGGACGTCGA	6460	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGGACGTGAA	6461	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGGACTGTTA	6462	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AGGAGAACAA	6463	0.0	#DIV/0!	0.0
0	0	1	AGGAGACGGT	6464	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AGGAGCCAGA	6465	0.0	#DIV/0!	0.0
0	0	1	AGGAGCGGTT	6466	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

1	0	0	AGGAGGATAT	6467	0.0	#DIV/0!	0.0
0	0	1	AGGAGGCTAG	6468	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AGGAGTTCCA	6469	#DIV/0!	0.0	#DIV/0!
0	1	0	AGGAGTTCTG	6470	#DIV/0!	0.0	#DIV/0!
0	1	0	AGGAGTTTTT	6471	#DIV/0!	0.0	#DIV/0!
0	0	1	AGGATCTTAG	6472	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AGGATCTTGA	6473	#DIV/0!	0.0	#DIV/0!
0	1	0	AGGATGAAGC	6474	#DIV/0!	0.0	#DIV/0!
1	0	0	AGGCAAACCA	6475	0.0	#DIV/0!	0.0
0	0	1	AGGCAAATGA	6476	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AGGCAGAACC	6477	#DIV/0!	0.0	#DIV/0!
1	0	0	AGGCAGGCCA	6478	0.0	#DIV/0!	0.0
0	0	1	AGGCAGTCAG	6479	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGGCCAACTG	6480	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AGGCCATTGC	6481	0.0	#DIV/0!	0.0
0	0	1	AGGCCATTTG	6482	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGGCCTGAAA	6483	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGGCTCTGCT	6484	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGGCTTGAGA	6485	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AGGCTTGAGG	6486	0.0	#DIV/0!	0.0
1	0	0	AGGGACATCG	6487	0.0	#DIV/0!	0.0
0	1	0	AGGGATACCA	6488	#DIV/0!	0.0	#DIV/0!
0	0	1	AGGGATGCTG	6489	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AGGGCAGGAA	6490	#DIV/0!	0.0	#DIV/0!
0	0	1	AGGGCAGTTT	6491	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGGGCCACCT	6492	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGGGCCATAA	6493	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGGGCTTGGT	6494	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

0	1	0	AGGGGAAAAG	6495	#DIV/0!	0.0	#DIV/0!
1	0	0	AGGGGAAGAA	6496	0.0	#DIV/0!	0.0
1	0	0	AGGGGCACGT	6497	0.0	#DIV/0!	0.0
0	0	1	AGGGGGGAAC	6498	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGGGTAGAAG	6499	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AGGGTCATCC	6500	#DIV/0!	0.0	#DIV/0!
0	1	0	AGGGTTTATA	6501	#DIV/0!	0.0	#DIV/0!
0	0	1	AGGGTTTGAG	6502	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AGGTAACTGC	6503	#DIV/0!	0.0	#DIV/0!
1	0	0	AGGTACATTT	6504	0.0	#DIV/0!	0.0
0	1	0	AGGTAGTTAG	6505	#DIV/0!	0.0	#DIV/0!
0	1	0	AGGTATGATG	6506	#DIV/0!	0.0	#DIV/0!
0	0	1	AGGTGAAACG	6507	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AGGTGAGAGA	6508	#DIV/0!	0.0	#DIV/0!
0	1	0	AGGTGCCCAA	6509	#DIV/0!	0.0	#DIV/0!
0	0	1	AGGTGTAAGA	6510	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AGGTTAAGAT	6511	0.0	#DIV/0!	0.0
0	1	0	AGGTTATGTG	6512	#DIV/0!	0.0	#DIV/0!
0	1	0	AGGTTATTGT	6513	#DIV/0!	0.0	#DIV/0!
0	0	1	AGGTTGCCAC	6514	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AGGTTGTGTG	6515	#DIV/0!	0.0	#DIV/0!
0	1	0	AGGTTTCGGT	6516	#DIV/0!	0.0	#DIV/0!
1	0	0	AGTAAAAACG	6517	0.0	#DIV/0!	0.0
0	1	0	AGTAAACCCG	6518	#DIV/0!	0.0	#DIV/0!
0	0	1	AGTAACGATG	6519	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGTAATCACG	6520	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AGTAATTCTC	6521	0.0	#DIV/0!	0.0
0	0	1	AGTACTACAA	6522	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

0	1	0	AGTACTAGTT	6523	#DIV/0!	0.0	#DIV/0!
0	0	1	AGTACTGAAG	6524	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AGTAGAGCCG	6525	0.0	#DIV/0!	0.0
1	0	0	AGTAGCCAAC	6526	0.0	#DIV/0!	0.0
0	1	0	AGTAGGTTAA	6527	#DIV/0!	0.0	#DIV/0!
1	0	0	AGTATAGTGG	6528	0.0	#DIV/0!	0.0
0	1	0	AGTATATATA	6529	#DIV/0!	0.0	#DIV/0!
0	1	0	AGTATATGCA	6530	#DIV/0!	0.0	#DIV/0!
0	1	0	AGTATCACAC	6531	#DIV/0!	0.0	#DIV/0!
0	1	0	AGTATGATCA	6532	#DIV/0!	0.0	#DIV/0!
0	1	0	AGTATGGGTG	6533	#DIV/0!	0.0	#DIV/0!
0	0	1	AGTATTATCA	6534	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AGTCAAACTG	6535	0.0	#DIV/0!	0.0
0	0	1	AGTCAACTCT	6536	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGTCCAGCTT	6537	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AGTCCCTGTT	6538	#DIV/0!	0.0	#DIV/0!
1	0	0	AGTCCGATTA	6539	0.0	#DIV/0!	0.0
0	0	1	AGTCCGCCAA	6540	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGTCCTCCTT	6541	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AGTCGTACTG	6542	#DIV/0!	0.0	#DIV/0!
1	0	0	AGTCTTCTTC	6543	0.0	#DIV/0!	0.0
0	0	1	AGTCTTCTTT	6544	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AGTGAAGGTG	6545	#DIV/0!	0.0	#DIV/0!
0	0	1	AGTGAATTTC	6546	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGTGAGACCA	6547	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGTGATATGG	6548	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGTGATCCAT	6549	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGTGCCATAA	6550	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

0	1	0	AGTGCGTATA	6551	#DIV/0!	0.0	#DIV/0!
1	0	0	AGTGCTGAAA	6552	0.0	#DIV/0!	0.0
0	0	1	AGTGCTGTTT	6553	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AGTGGAAAAA	6554	0.0	#DIV/0!	0.0
0	1	0	AGTGGAAGGA	6555	#DIV/0!	0.0	#DIV/0!
0	0	1	AGTGGACATA	6556	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AGTGGATAGC	6557	0.0	#DIV/0!	0.0
0	1	0	AGTGGCTCAA	6558	#DIV/0!	0.0	#DIV/0!
0	0	1	AGTGGGCTGA	6559	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AGTGGGGCCG	6560	#DIV/0!	0.0	#DIV/0!
0	1	0	AGTGGTAGAA	6561	#DIV/0!	0.0	#DIV/0!
0	1	0	AGTGTATTTC	6562	#DIV/0!	0.0	#DIV/0!
1	0	0	AGTGTCAGTT	6563	0.0	#DIV/0!	0.0
0	0	1	AGTGTTGCTT	6564	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AGTGTTTATA	6565	0.0	#DIV/0!	0.0
0	1	0	AGTTAAGAGT	6566	#DIV/0!	0.0	#DIV/0!
0	1	0	AGTTACTGTT	6567	#DIV/0!	0.0	#DIV/0!
0	0	1	AGTTATCAAA	6568	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AGTTATCCAA	6569	0.0	#DIV/0!	0.0
0	1	0	AGTTCAATGC	6570	#DIV/0!	0.0	#DIV/0!
0	1	0	AGTTCACACT	6571	#DIV/0!	0.0	#DIV/0!
1	0	0	AGTTCCCGGT	6572	0.0	#DIV/0!	0.0
0	0	1	AGTTCGAAGA	6573	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AGTTCGGGAG	6574	0.0	#DIV/0!	0.0
0	1	0	AGTTCTCCAG	6575	#DIV/0!	0.0	#DIV/0!
0	0	1	AGTTCTCTTT	6576	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	AGTTCTTATA	6577	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AGTTCTTCAC	6578	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

1	0	0	AGTTGAAATT	6579	0.0	#DIV/0!	0.0
0	1	0	AGTTGAGTTA	6580	#DIV/0!	0.0	#DIV/0!
0	1	0	AGTTTACCAC	6581	#DIV/0!	0.0	#DIV/0!
0	0	1	AGTTTACCTC	6582	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	AGTTTATAAA	6583	0.0	#DIV/0!	0.0
0	1	0	AGTTTCCTGA	6584	#DIV/0!	0.0	#DIV/0!
0	1	0	AGTTTGATGA	6585	#DIV/0!	0.0	#DIV/0!
1	0	0	AGTTTGGAGA	6586	0.0	#DIV/0!	0.0
0	0	1	AGTTTGGCAA	6587	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AGTTTTATTT	6588	#DIV/0!	0.0	#DIV/0!
1	0	0	AGTTTTCCTT	6589	0.0	#DIV/0!	0.0
1	0	0	AGTTTTCTGC	6590	0.0	#DIV/0!	0.0
0	1	0	AGTTTTGCAT	6591	#DIV/0!	0.0	#DIV/0!
0	0	1	AGTTTTGGTT	6592	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	AGTTTTTTGA	6593	#DIV/0!	0.0	#DIV/0!
1	0	0	ATAAAAAAAG	6594	0.0	#DIV/0!	0.0
0	0	1	ATAAAAAGGG	6595	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ATAAAAATGA	6596	0.0	#DIV/0!	0.0
1	0	0	ATAAAAGAAG	6597	0.0	#DIV/0!	0.0
0	1	0	ATAAAAGTAA	6598	#DIV/0!	0.0	#DIV/0!
1	0	0	ATAAAAGTGT	6599	0.0	#DIV/0!	0.0
0	1	0	ATAAAGAAAA	6600	#DIV/0!	0.0	#DIV/0!
0	0	1	ATAAAGAAAG	6601	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ATAAAGAACG	6602	0.0	#DIV/0!	0.0
0	1	0	ATAAAGATTA	6603	#DIV/0!	0.0	#DIV/0!
0	0	1	ATAAAGTGGT	6604	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ATAAATACCA	6605	0.0	#DIV/0!	0.0
0	1	0	ATAAATCATT	6606	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

1	0	0	ATAAATCGCT	6607	0.0	#DIV/0!	0.0
0	1	0	ATAAATCTAT	6608	#DIV/0!	0.0	#DIV/0!
0	1	0	ATAAATGATC	6609	#DIV/0!	0.0	#DIV/0!
0	0	1	ATAAATGGAA	6610	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ATAACAACAG	6611	#DIV/0!	0.0	#DIV/0!
1	0	0	ATAACAGAGA	6612	0.0	#DIV/0!	0.0
1	0	0	ATAACAGCAA	6613	0.0	#DIV/0!	0.0
1	0	0	ATAACAGTCA	6614	0.0	#DIV/0!	0.0
1	0	0	ATAACCAAAA	6615	0.0	#DIV/0!	0.0
0	0	1	ATAACGACAG	6616	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ATAACGTGAA	6617	#DIV/0!	0.0	#DIV/0!
0	1	0	ATAAGCAGGA	6618	#DIV/0!	0.0	#DIV/0!
0	1	0	ATAAGCCCAA	6619	#DIV/0!	0.0	#DIV/0!
0	0	1	ATAAGCGCAT	6620	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ATAAGCTATG	6621	0.0	#DIV/0!	0.0
0	1	0	ATAAGTGATT	6622	#DIV/0!	0.0	#DIV/0!
0	0	1	ATAAGTGCCA	6623	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATAAGTGTTT	6624	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATAAGTTAAC	6625	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ATAAGTTTGA	6626	0.0	#DIV/0!	0.0
0	0	1	ATAATAACTT	6627	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ATAATAATTT	6628	#DIV/0!	0.0	#DIV/0!
0	1	0	ATAATATATT	6629	#DIV/0!	0.0	#DIV/0!
0	1	0	ATAATATCGA	6630	#DIV/0!	0.0	#DIV/0!
1	0	0	ATAATCGCCT	6631	0.0	#DIV/0!	0.0
0	1	0	ATAATGAACA	6632	#DIV/0!	0.0	#DIV/0!
0	1	0	ATAATGAACT	6633	#DIV/0!	0.0	#DIV/0!
0	0	1	ATAATGGACT	6634	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

0	0	1	ATAATGGCAC	6635	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ATAATGGCGT	6636	#DIV/0!	0.0	#DIV/0!
0	1	0	ATAATGTACT	6637	#DIV/0!	0.0	#DIV/0!
0	0	1	ATAATGTGGA	6638	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATAATGTTGA	6639	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ATAATTCGTC	6640	0.0	#DIV/0!	0.0
0	0	1	ATAATTGGGG	6641	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ATACAAAAAA	6642	0.0	#DIV/0!	0.0
1	0	0	ATACAAACTG	6643	0.0	#DIV/0!	0.0
0	1	0	ATACAAGGTA	6644	#DIV/0!	0.0	#DIV/0!
0	0	1	ATACAAGGTG	6645	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ATACAAGTTT	6646	#DIV/0!	0.0	#DIV/0!
0	1	0	ATACACATAA	6647	#DIV/0!	0.0	#DIV/0!
0	1	0	ATACACTGGT	6648	#DIV/0!	0.0	#DIV/0!
1	0	0	ATACAGATTA	6649	0.0	#DIV/0!	0.0
0	1	0	ATACAGGATT	6650	#DIV/0!	0.0	#DIV/0!
0	1	0	ATACATAAAA	6651	#DIV/0!	0.0	#DIV/0!
0	1	0	ATACATTTAA	6652	#DIV/0!	0.0	#DIV/0!
0	0	1	ATACATTTCT	6653	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ATACCACTCC	6654	#DIV/0!	0.0	#DIV/0!
1	0	0	ATACCTCTTC	6655	0.0	#DIV/0!	0.0
0	1	0	ATACCTTTAG	6656	#DIV/0!	0.0	#DIV/0!
0	0	1	ATACGATTAC	6657	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATACGCCGCT	6658	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATACGGGCCC	6659	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ATACGTATTT	6660	#DIV/0!	0.0	#DIV/0!
0	1	0	ATACGTTTGT	6661	#DIV/0!	0.0	#DIV/0!
0	1	0	ATACTACCAA	6662	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	1	0	ATACTAGATA	6663	#DIV/0!	0.0	#DIV/0!
0	0	1	ATACTCCAAT	6664	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ATACTGAAAG	6665	#DIV/0!	0.0	#DIV/0!
1	0	0	ATACTGCTGC	6666	0.0	#DIV/0!	0.0
0	1	0	ATACTGGTGC	6667	#DIV/0!	0.0	#DIV/0!
0	0	1	ATACTTCGTC	6668	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ATACTTGGCT	6669	#DIV/0!	0.0	#DIV/0!
0	1	0	ATACTTTCTA	6670	#DIV/0!	0.0	#DIV/0!
0	0	1	ATAGAAACTG	6671	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ATAGAAAGAG	6672	0.0	#DIV/0!	0.0
0	1	0	ATAGAAATCC	6673	#DIV/0!	0.0	#DIV/0!
0	1	0	ATAGAAGTTA	6674	#DIV/0!	0.0	#DIV/0!
0	1	0	ATAGAATGCA	6675	#DIV/0!	0.0	#DIV/0!
0	0	1	ATAGACAGAG	6676	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ATAGAGACAA	6677	0.0	#DIV/0!	0.0
0	0	1	ATAGAGCCAT	6678	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ATAGAGCCGG	6679	0.0	#DIV/0!	0.0
0	0	1	ATAGAGTTAA	6680	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ATAGATTTAA	6681	#DIV/0!	0.0	#DIV/0!
0	1	0	ATAGATTTAG	6682	#DIV/0!	0.0	#DIV/0!
0	1	0	ATAGCCGCTC	6683	#DIV/0!	0.0	#DIV/0!
1	0	0	ATAGCGAACT	6684	0.0	#DIV/0!	0.0
1	0	0	ATAGCTCCAT	6685	0.0	#DIV/0!	0.0
1	0	0	ATAGGCTACA	6686	0.0	#DIV/0!	0.0
0	1	0	ATAGGCTCGA	6687	#DIV/0!	0.0	#DIV/0!
1	0	0	ATAGGTATCT	6688	0.0	#DIV/0!	0.0
0	0	1	ATAGGTTTGA	6689	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATAGTCGTGC	6690	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

0	1	0	ATAGTTAAGG	6691	#DIV/0!	0.0	#DIV/0!
1	0	0	ATAGTTCCCA	6692	0.0	#DIV/0!	0.0
0	1	0	ATAGTTGAAA	6693	#DIV/0!	0.0	#DIV/0!
0	0	1	ATAGTTTCTA	6694	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ATATAAGTAC	6695	0.0	#DIV/0!	0.0
1	0	0	ATATACGACA	6696	0.0	#DIV/0!	0.0
1	0	0	ATATAGCGGC	6697	0.0	#DIV/0!	0.0
0	0	1	ATATAGGCCT	6698	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ATATAGTGGT	6699	#DIV/0!	0.0	#DIV/0!
0	1	0	ATATATAAGG	6700	#DIV/0!	0.0	#DIV/0!
1	0	0	ATATATAGGT	6701	0.0	#DIV/0!	0.0
0	1	0	ATATATGTCC	6702	#DIV/0!	0.0	#DIV/0!
1	0	0	ATATATTCCA	6703	0.0	#DIV/0!	0.0
0	1	0	ATATATTGGT	6704	#DIV/0!	0.0	#DIV/0!
0	1	0	ATATCAAGAA	6705	#DIV/0!	0.0	#DIV/0!
1	0	0	ATATCAAGCA	6706	0.0	#DIV/0!	0.0
0	1	0	ATATCACAAT	6707	#DIV/0!	0.0	#DIV/0!
0	1	0	ATATCAGCAG	6708	#DIV/0!	0.0	#DIV/0!
0	1	0	ATATCCATTG	6709	#DIV/0!	0.0	#DIV/0!
0	1	0	ATATCCGTAT	6710	#DIV/0!	0.0	#DIV/0!
0	1	0	ATATCGAAAA	6711	#DIV/0!	0.0	#DIV/0!
0	1	0	ATATCGATGG	6712	#DIV/0!	0.0	#DIV/0!
0	1	0	ATATCGTCAG	6713	#DIV/0!	0.0	#DIV/0!
0	0	1	ATATCTAGTT	6714	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ATATCTCATA	6715	#DIV/0!	0.0	#DIV/0!
1	0	0	ATATCTCTGT	6716	0.0	#DIV/0!	0.0
0	1	0	ATATCTGTTT	6717	#DIV/0!	0.0	#DIV/0!
0	1	0	ATATCTTTAA	6718	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	1	0	ATATCTTTGA	6719	#DIV/0!	0.0	#DIV/0!
0	0	1	ATATGAAGAA	6720	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ATATGGAGAA	6721	0.0	#DIV/0!	0.0
0	0	1	ATATGGATAA	6722	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ATATGGATTT	6723	#DIV/0!	0.0	#DIV/0!
1	0	0	ATATGGGTGG	6724	0.0	#DIV/0!	0.0
1	0	0	ATATTAAAAT	6725	0.0	#DIV/0!	0.0
0	1	0	ATATTAACAT	6726	#DIV/0!	0.0	#DIV/0!
0	1	0	ATATTAGCAC	6727	#DIV/0!	0.0	#DIV/0!
1	0	0	ATATTATAAA	6728	0.0	#DIV/0!	0.0
1	0	0	ATATTATTAG	6729	0.0	#DIV/0!	0.0
0	0	1	ATATTCAAGA	6730	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ATATTCAGAA	6731	0.0	#DIV/0!	0.0
1	0	0	ATATTCGATG	6732	0.0	#DIV/0!	0.0
0	1	0	ATATTGACTT	6733	#DIV/0!	0.0	#DIV/0!
0	1	0	ATATTGATAT	6734	#DIV/0!	0.0	#DIV/0!
0	1	0	ATATTGGAAC	6735	#DIV/0!	0.0	#DIV/0!
0	0	1	ATATTTATCG	6736	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATATTTGCTA	6737	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ATATTTTCTG	6738	0.0	#DIV/0!	0.0
1	0	0	ATCAAAAACT	6739	0.0	#DIV/0!	0.0
0	1	0	ATCAAAAAGT	6740	#DIV/0!	0.0	#DIV/0!
1	0	0	ATCAAAATTT	6741	0.0	#DIV/0!	0.0
0	1	0	ATCAAACGCT	6742	#DIV/0!	0.0	#DIV/0!
0	0	1	ATCAAAGTGC	6743	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ATCAAATATA	6744	#DIV/0!	0.0	#DIV/0!
0	0	1	ATCAAATCCA	6745	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATCAAATCTA	6746	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

1	0	0	ATCAACGCTA	6747	0.0	#DIV/0!	0.0
0	1	0	ATCAAGGTGC	6748	#DIV/0!	0.0	#DIV/0!
0	0	1	ATCAAGTTAC	6749	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ATCAATATGC	6750	0.0	#DIV/0!	0.0
1	0	0	ATCACCAAAA	6751	0.0	#DIV/0!	0.0
0	0	1	ATCACCCACG	6752	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ATCACCTGCC	6753	0.0	#DIV/0!	0.0
0	1	0	ATCACGCCCT	6754	#DIV/0!	0.0	#DIV/0!
0	1	0	ATCACGCTCC	6755	#DIV/0!	0.0	#DIV/0!
0	0	1	ATCACGGGTG	6756	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATCACTCCTG	6757	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATCACTGGCG	6758	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATCACTGGGA	6759	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ATCAGAAATA	6760	#DIV/0!	0.0	#DIV/0!
0	0	1	ATCAGGTTGG	6761	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATCAGTAGTT	6762	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ATCAGTGTTA	6763	0.0	#DIV/0!	0.0
1	0	0	ATCAGTTTCT	6764	0.0	#DIV/0!	0.0
1	0	0	ATCATAAGAT	6765	0.0	#DIV/0!	0.0
0	0	1	ATCATCAAAG	6766	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATCATTTAGA	6767	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ATCATTTTCC	6768	#DIV/0!	0.0	#DIV/0!
1	0	0	ATCCAAGGTG	6769	0.0	#DIV/0!	0.0
1	0	0	ATCCAATTAT	6770	0.0	#DIV/0!	0.0
0	0	1	ATCCACTGGT	6771	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATCCAGGTGC	6772	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ATCCATATTA	6773	#DIV/0!	0.0	#DIV/0!
0	0	1	ATCCATCATT	6774	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

0	0	1	ATCCATTTCT	6775	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATCCCAGCTC	6776	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ATCCCAGCTT	6777	0.0	#DIV/0!	0.0
0	1	0	ATCCCCATAG	6778	#DIV/0!	0.0	#DIV/0!
0	1	0	ATCCCGTTTG	6779	#DIV/0!	0.0	#DIV/0!
0	0	1	ATCCCTCCAA	6780	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ATCCCTGTTA	6781	0.0	#DIV/0!	0.0
0	1	0	ATCCCTTACC	6782	#DIV/0!	0.0	#DIV/0!
1	0	0	ATCCCTTCTT	6783	0.0	#DIV/0!	0.0
1	0	0	ATCCCTTGAA	6784	0.0	#DIV/0!	0.0
0	1	0	ATCCGAACAA	6785	#DIV/0!	0.0	#DIV/0!
0	1	0	ATCCGCCATC	6786	#DIV/0!	0.0	#DIV/0!
1	0	0	ATCCGCGCAC	6787	0.0	#DIV/0!	0.0
1	0	0	ATCCGCGGAT	6788	0.0	#DIV/0!	0.0
1	0	0	ATCCGGAGGC	6789	0.0	#DIV/0!	0.0
1	0	0	ATCCGGAGGT	6790	0.0	#DIV/0!	0.0
1	0	0	ATCCGTTCTA	6791	0.0	#DIV/0!	0.0
0	0	1	ATCCTATTAT	6792	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATCCTCGTCA	6793	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ATCCTGAATC	6794	#DIV/0!	0.0	#DIV/0!
1	0	0	ATCCTTGTGC	6795	0.0	#DIV/0!	0.0
0	0	1	ATCGAGAATG	6796	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ATCGAGGATA	6797	0.0	#DIV/0!	0.0
0	1	0	ATCGATATCT	6798	#DIV/0!	0.0	#DIV/0!
0	1	0	ATCGATTAAA	6799	#DIV/0!	0.0	#DIV/0!
0	1	0	ATCGATTGAA	6800	#DIV/0!	0.0	#DIV/0!
0	0	1	ATCGCACAAT	6801	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATCGCACCAA	6802	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

0	1	0	ATCGCCACTC	6803	#DIV/0!	0.0	#DIV/0!
0	0	1	ATCGCCGCCA	6804	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATCGCCGCCC	6805	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ATCGCCGCTA	6806	#DIV/0!	0.0	#DIV/0!
1	0	0	ATCGCCGCTG	6807	0.0	#DIV/0!	0.0
1	0	0	ATCGCCGGCT	6808	0.0	#DIV/0!	0.0
1	0	0	ATCGCCGGTC	6809	0.0	#DIV/0!	0.0
0	0	1	ATCGCCGTCA	6810	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ATCGCCTTTG	6811	0.0	#DIV/0!	0.0
1	0	0	ATCGCTTAAA	6812	0.0	#DIV/0!	0.0
1	0	0	ATCGGCGCTC	6813	0.0	#DIV/0!	0.0
0	1	0	ATCGGCGGCT	6814	#DIV/0!	0.0	#DIV/0!
1	0	0	ATCGGTCCTC	6815	0.0	#DIV/0!	0.0
0	1	0	ATCGGTGCTT	6816	#DIV/0!	0.0	#DIV/0!
0	0	1	ATCGTACAAT	6817	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ATCGTATTTA	6818	#DIV/0!	0.0	#DIV/0!
0	0	1	ATCGTCTAGG	6819	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ATCGTGCGGG	6820	0.0	#DIV/0!	0.0
0	1	0	ATCGTGGAAC	6821	#DIV/0!	0.0	#DIV/0!
0	1	0	ATCGTGGTGG	6822	#DIV/0!	0.0	#DIV/0!
1	0	0	ATCGTTACGG	6823	0.0	#DIV/0!	0.0
1	0	0	ATCGTTTTAC	6824	0.0	#DIV/0!	0.0
0	1	0	ATCTAATTCC	6825	#DIV/0!	0.0	#DIV/0!
1	0	0	ATCTACAGGT	6826	0.0	#DIV/0!	0.0
1	0	0	ATCTAGTCTG	6827	0.0	#DIV/0!	0.0
1	0	0	ATCTATGTAA	6828	0.0	#DIV/0!	0.0
0	1	0	ATCTCAACAT	6829	#DIV/0!	0.0	#DIV/0!
1	0	0	ATCTCACAAA	6830	0.0	#DIV/0!	0.0

Table 5, cont.

1	0	0	ATCTCAGTGC	6831	0.0	#DIV/0!	0.0
0	0	1	ATCTCCAGAA	6832	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ATCTCCCAAT	6833	#DIV/0!	0.0	#DIV/0!
1	0	0	ATCTCCTAAT	6834	0.0	#DIV/0!	0.0
0	1	0	ATCTCCTCTA	6835	#DIV/0!	0.0	#DIV/0!
0	1	0	ATCTCCTTTC	6836	#DIV/0!	0.0	#DIV/0!
0	1	0	ATCTCGAAGC	6837	#DIV/0!	0.0	#DIV/0!
0	1	0	ATCTGACGAT	6838	#DIV/0!	0.0	#DIV/0!
1	0	0	ATCTGCTACA	6839	0.0	#DIV/0!	0.0
0	0	1	ATCTGCTCAT	6840	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATCTGGATAT	6841	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ATCTGGATTT	6842	0.0	#DIV/0!	0.0
0	1	0	ATCTGTAAAA	6843	#DIV/0!	0.0	#DIV/0!
0	0	1	ATCTGTATTC	6844	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ATCTGTCATC	6845	0.0	#DIV/0!	0.0
0	1	0	ATCTGTGATA	6846	#DIV/0!	0.0	#DIV/0!
0	0	1	ATCTGTGGCT	6847	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ATCTGTTCGC	6848	0.0	#DIV/0!	0.0
0	1	0	ATCTTAATTC	6849	#DIV/0!	0.0	#DIV/0!
0	1	0	ATCTTAGTTT	6850	#DIV/0!	0.0	#DIV/0!
0	1	0	ATCTTCACTA	6851	#DIV/0!	0.0	#DIV/0!
0	1	0	ATCTTCTTGT	6852	#DIV/0!	0.0	#DIV/0!
0	0	1	ATCTTGAAGC	6853	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ATCTTTAACT	6854	0.0	#DIV/0!	0.0
1	0	0	ATCTTTAATA	6855	0.0	#DIV/0!	0.0
1	0	0	ATCTTTATTT	6856	0.0	#DIV/0!	0.0
1	0	0	ATCTTTCTCA	6857	0.0	#DIV/0!	0.0
0	0	1	ATCTTTGCCT	6858	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

0	1	0	ATCTTTGTCA	6859	#DIV/0!	0.0	#DIV/0!
1	0	0	ATCTTTTCGT	6860	0.0	#DIV/0!	0.0
0	1	0	ATCTTTTTAT	6861	#DIV/0!	0.0	#DIV/0!
0	1	0	ATCTTTTTTG	6862	#DIV/0!	0.0	#DIV/0!
0	0	1	ATGAAAGTTC	6863	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ATGAAGGAAA	6864	#DIV/0!	0.0	#DIV/0!
1	0	0	ATGAAGGATC	6865	0.0	#DIV/0!	0.0
0	0	1	ATGAAGGGTT	6866	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ATGAAGTAAA	6867	#DIV/0!	0.0	#DIV/0!
0	1	0	ATGAAGTTAA	6868	#DIV/0!	0.0	#DIV/0!
1	0	0	ATGAATTATC	6869	0.0	#DIV/0!	0.0
0	1	0	ATGAATTGAA	6870	#DIV/0!	0.0	#DIV/0!
1	0	0	ATGACAACGC	6871	0.0	#DIV/0!	0.0
0	1	0	ATGACATTTA	6872	#DIV/0!	0.0	#DIV/0!
0	0	1	ATGACCAGGC	6873	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATGACTAAGT	6874	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATGACTGGTG	6875	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ATGAGACAAA	6876	0.0	#DIV/0!	0.0
1	0	0	ATGAGAGCGC	6877	0.0	#DIV/0!	0.0
0	1	0	ATGAGATGCG	6878	#DIV/0!	0.0	#DIV/0!
1	0	0	ATGAGATTAC	6879	0.0	#DIV/0!	0.0
0	1	0	ATGAGCAGAA	6880	#DIV/0!	0.0	#DIV/0!
0	0	1	ATGAGCTATG	6881	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ATGAGCTGCG	6882	#DIV/0!	0.0	#DIV/0!
0	1	0	ATGAGGAACG	6883	#DIV/0!	0.0	#DIV/0!
1	0	0	ATGAGGAACT	6884	0.0	#DIV/0!	0.0
0	1	0	ATGAGGAGAG	6885	#DIV/0!	0.0	#DIV/0!
0	0	1	ATGAGGGTTC	6886	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

0	0	1	ATGAGGTCCA	6887	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATGAGGTTCC	6888	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ATGAGTAGTA	6889	#DIV/0!	0.0	#DIV/0!
0	0	1	ATGAGTTACT	6890	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATGATAACGC	6891	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ATGATAATGC	6892	0.0	#DIV/0!	0.0
0	1	0	ATGATACAAG	6893	#DIV/0!	0.0	#DIV/0!
0	0	1	ATGATACGCG	6894	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ATGATAGCAA	6895	0.0	#DIV/0!	0.0
0	1	0	ATGATAGCAG	6896	#DIV/0!	0.0	#DIV/0!
0	1	0	ATGATAGTAC	6897	#DIV/0!	0.0	#DIV/0!
0	1	0	ATGATCAGTC	6898	#DIV/0!	0.0	#DIV/0!
0	1	0	ATGATCCACA	6899	#DIV/0!	0.0	#DIV/0!
0	0	1	ATGATCCCTG	6900	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ATGATCCTGA	6901	#DIV/0!	0.0	#DIV/0!
0	1	0	ATGATCGGTT	6902	#DIV/0!	0.0	#DIV/0!
0	0	1	ATGATGAACT	6903	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATGATGATAA	6904	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ATGATGCAAA	6905	0.0	#DIV/0!	0.0
0	0	1	ATGATGCCGG	6906	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ATGATGTTCC	6907	#DIV/0!	0.0	#DIV/0!
1	0	0	ATGATGTTGA	6908	0.0	#DIV/0!	0.0
0	1	0	ATGATTAACA	6909	#DIV/0!	0.0	#DIV/0!
0	0	1	ATGATTACCT	6910	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ATGATTACTG	6911	0.0	#DIV/0!	0.0
0	1	0	ATGATTGTTT	6912	#DIV/0!	0.0	#DIV/0!
1	0	0	ATGATTTTGA	6913	0.0	#DIV/0!	0.0
0	1	0	ATGCAACAGT	6914	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

1	0	0	ATGCAACGCC	6915	0.0	#DIV/0!	0.0
0	1	0	ATGCAAGTGT	6916	#DIV/0!	0.0	#DIV/0!
0	1	0	ATGCAATATT	6917	#DIV/0!	0.0	#DIV/0!
0	0	1	ATGCACCTAC	6918	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATGCATCCCC	6919	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATGCCAACCA	6920	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ATGCCACTAC	6921	0.0	#DIV/0!	0.0
0	0	1	ATGCCAGTCT	6922	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ATGCCATTCG	6923	0.0	#DIV/0!	0.0
0	1	0	ATGCCTGCCA	6924	#DIV/0!	0.0	#DIV/0!
0	1	0	ATGCCTTACC	6925	#DIV/0!	0.0	#DIV/0!
0	0	1	ATGCCTTTCT	6926	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATGCGAACAT	6927	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATGCGATTTC	6928	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATGCGTTATT	6929	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ATGCTAGCTG	6930	#DIV/0!	0.0	#DIV/0!
0	0	1	ATGCTAGGCG	6931	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ATGCTCAGCC	6932	0.0	#DIV/0!	0.0
1	0	0	ATGCTCCACG	6933	0.0	#DIV/0!	0.0
1	0	0	ATGCTGGGGG	6934	0.0	#DIV/0!	0.0
1	0	0	ATGCTGTCGA	6935	0.0	#DIV/0!	0.0
0	0	1	ATGCTTAGGG	6936	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ATGCTTTTCT	6937	#DIV/0!	0.0	#DIV/0!
0	1	0	ATGGAAAACT	6938	#DIV/0!	0.0	#DIV/0!
0	1	0	ATGGAAGAAC	6939	#DIV/0!	0.0	#DIV/0!
0	1	0	ATGGACCTCC	6940	#DIV/0!	0.0	#DIV/0!
1	0	0	ATGGACTCCA	6941	0.0	#DIV/0!	0.0
1	0	0	ATGGACTGAA	6942	0.0	#DIV/0!	0.0

Table 5, cont.

0	0	1	ATGGAGTCGT	6943	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ATGGATAAAT	6944	#DIV/0!	0.0	#DIV/0!
0	0	1	ATGGATTACG	6945	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ATGGATTTAA	6946	0.0	#DIV/0!	0.0
0	1	0	ATGGCACCGC	6947	#DIV/0!	0.0	#DIV/0!
0	0	1	ATGGCATTGC	6948	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ATGGCCATCT	6949	#DIV/0!	0.0	#DIV/0!
0	1	0	ATGGCCCACA	6950	#DIV/0!	0.0	#DIV/0!
0	1	0	ATGGCGAATC	6951	#DIV/0!	0.0	#DIV/0!
1	0	0	ATGGCGAGTA	6952	0.0	#DIV/0!	0.0
0	0	1	ATGGCTAAAT	6953	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ATGGCTCAAA	6954	#DIV/0!	0.0	#DIV/0!
0	1	0	ATGGCTCAGA	6955	#DIV/0!	0.0	#DIV/0!
0	0	1	ATGGGATTTT	6956	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATGGGCACCG	6957	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ATGGGCTCCC	6958	0.0	#DIV/0!	0.0
0	0	1	ATGGGCTTCT	6959	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ATGGGTGGTT	6960	0.0	#DIV/0!	0.0
0	0	1	ATGGTAATGG	6961	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ATGGTATGAC	6962	0.0	#DIV/0!	0.0
0	0	1	ATGGTGAGCA	6963	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATGGTGATGA	6964	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATGGTGCATC	6965	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATGGTGTCTC	6966	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATGGTGTGAT	6967	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ATGGTGTTAA	6968	#DIV/0!	0.0	#DIV/0!
0	0	1	ATGGTTATAC	6969	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATGGTTTTCT	6970	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

0	0	1	ATGTAAGATC	6971	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ATGTAAGATT	6972	0.0	#DIV/0!	0.0
0	1	0	ATGTAATAGG	6973	#DIV/0!	0.0	#DIV/0!
0	1	0	ATGTACTCTT	6974	#DIV/0!	0.0	#DIV/0!
0	0	1	ATGTACTTTA	6975	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATGTAGGCGG	6976	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ATGTAGTAGT	6977	#DIV/0!	0.0	#DIV/0!
0	1	0	ATGTATGAGA	6978	#DIV/0!	0.0	#DIV/0!
0	1	0	ATGTATGGTT	6979	#DIV/0!	0.0	#DIV/0!
0	0	1	ATGTCAGCAT	6980	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ATGTCATATC	6981	0.0	#DIV/0!	0.0
0	0	1	ATGTCGGCTT	6982	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ATGTGATGGA	6983	#DIV/0!	0.0	#DIV/0!
1	0	0	ATGTGGATGT	6984	0.0	#DIV/0!	0.0
0	0	1	ATGTGTGTAA	6985	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ATGTGTTCAA	6986	0.0	#DIV/0!	0.0
0	0	1	ATGTTAACTT	6987	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATGTTAAGCA	6988	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ATGTTATAGT	6989	#DIV/0!	0.0	#DIV/0!
1	0	0	ATGTTGATCT	6990	0.0	#DIV/0!	0.0
0	0	1	ATGTTGGCGA	6991	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ATGTTTTATT	6992	0.0	#DIV/0!	0.0
0	1	0	ATGTTTTTGG	6993	#DIV/0!	0.0	#DIV/0!
1	0	0	ATTAAAAGAT	6994	0.0	#DIV/0!	0.0
0	1	0	ATTAAACGAT	6995	#DIV/0!	0.0	#DIV/0!
0	0	1	ATTAAAGTCC	6996	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ATTAAATCCT	6997	0.0	#DIV/0!	0.0
0	1	0	ATTAACAAAA	6998	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

1	0	0	ATTAACAAAG	6999	0.0	#DIV/0!	0.0
0	0	1	ATTAAGGGTA	7000	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATTAATCAAT	7001	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ATTAATGAAG	7002	#DIV/0!	0.0	#DIV/0!
1	0	0	ATTAATTACA	7003	0.0	#DIV/0!	0.0
0	1	0	ATTAATTTTG	7004	#DIV/0!	0.0	#DIV/0!
0	1	0	ATTACCAATA	7005	#DIV/0!	0.0	#DIV/0!
1	0	0	ATTACCGCTC	7006	0.0	#DIV/0!	0.0
0	1	0	ATTACCGTCT	7007	#DIV/0!	0.0	#DIV/0!
0	1	0	ATTACCTGTT	7008	#DIV/0!	0.0	#DIV/0!
1	0	0	ATTACGATAC	7009	0.0	#DIV/0!	0.0
0	1	0	ATTACGTGCG	7010	#DIV/0!	0.0	#DIV/0!
0	1	0	ATTACGTGTG	7011	#DIV/0!	0.0	#DIV/0!
0	0	1	ATTAGAAGAA	7012	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ATTAGAATCA	7013	0.0	#DIV/0!	0.0
0	1	0	ATTAGAATCG	7014	#DIV/0!	0.0	#DIV/0!
1	0	0	ATTAGATCTT	7015	0.0	#DIV/0!	0.0
0	0	1	ATTAGTGGAA	7016	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ATTAGTTACA	7017	#DIV/0!	0.0	#DIV/0!
0	1	0	ATTATATATT	7018	#DIV/0!	0.0	#DIV/0!
1	0	0	ATTATATTTT	7019	0.0	#DIV/0!	0.0
0	1	0	ATTATCACCG	7020	#DIV/0!	0.0	#DIV/0!
0	0	1	ATTATCGAAA	7021	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ATTATCTCTG	7022	#DIV/0!	0.0	#DIV/0!
1	0	0	ATTATCTGTT	7023	0.0	#DIV/0!	0.0
0	1	0	ATTATTAAGT	7024	#DIV/0!	0.0	#DIV/0!
0	1	0	ATTATTACCA	7025	#DIV/0!	0.0	#DIV/0!
1	0	0	ATTATTCATT	7026	0.0	#DIV/0!	0.0

Table 5, cont.

0	1	0	ATTATTTCGA	7027	#DIV/0!	0.0	#DIV/0!
1	0	0	ATTCAAAAGT	7028	0.0	#DIV/0!	0.0
1	0	0	ATTCAAACGC	7029	0.0	#DIV/0!	0.0
1	0	0	ATTCAAATAT	7030	0.0	#DIV/0!	0.0
0	1	0	ATTCAACGTT	7031	#DIV/0!	0.0	#DIV/0!
0	1	0	ATTCAACTGA	7032	#DIV/0!	0.0	#DIV/0!
1	0	0	ATTCAACTGG	7033	0.0	#DIV/0!	0.0
0	0	1	ATTCAAGCAG	7034	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATTCAATTTC	7035	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATTCAGAAGC	7036	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ATTCAGATTT	7037	#DIV/0!	0.0	#DIV/0!
1	0	0	ATTCATATCT	7038	0.0	#DIV/0!	0.0
0	1	0	ATTCCAAACA	7039	#DIV/0!	0.0	#DIV/0!
1	0	0	ATTCCAAGAA	7040	0.0	#DIV/0!	0.0
0	1	0	ATTCCAGAAT	7041	#DIV/0!	0.0	#DIV/0!
1	0	0	ATTCCCAAGT	7042	0.0	#DIV/0!	0.0
0	1	0	ATTCGCTAGC	7043	#DIV/0!	0.0	#DIV/0!
1	0	0	ATTCGGCTTC	7044	0.0	#DIV/0!	0.0
1	0	0	ATTCGTATCT	7045	0.0	#DIV/0!	0.0
0	0	1	ATTCGTGTAT	7046	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ATTCTAACTC	7047	#DIV/0!	0.0	#DIV/0!
0	0	1	ATTCTACGAA	7048	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ATTCTAGCTC	7049	#DIV/0!	0.0	#DIV/0!
0	1	0	ATTCTCTCAC	7050	#DIV/0!	0.0	#DIV/0!
0	1	0	ATTCTCTTTT	7051	#DIV/0!	0.0	#DIV/0!
1	0	0	ATTCTGAAGA	7052	0.0	#DIV/0!	0.0
1	0	0	ATTCTGCAAT	7053	0.0	#DIV/0!	0.0
1	0	0	ATTCTGGAAA	7054	0.0	#DIV/0!	0.0

Table 5, cont.

0	1	0	ATTCTGGACC	7055	#DIV/0!	0.0	#DIV/0!
0	1	0	ATTCTGGGTT	7056	#DIV/0!	0.0	#DIV/0!
0	0	1	ATTCTGGTGA	7057	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATTCTGGTGT	7058	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATTCTTCAGG	7059	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATTCTTGAGA	7060	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATTCTTGATT	7061	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ATTCTTGCCT	7062	#DIV/0!	0.0	#DIV/0!
0	1	0	ATTCTTGGCA	7063	#DIV/0!	0.0	#DIV/0!
0	1	0	ATTCTTGTCT	7064	#DIV/0!	0.0	#DIV/0!
1	0	0	ATTCTTTCAA	7065	0.0	#DIV/0!	0.0
0	1	0	ATTCTTTCGA	7066	#DIV/0!	0.0	#DIV/0!
0	1	0	ATTCTTTTTT	7067	#DIV/0!	0.0	#DIV/0!
1	0	0	ATTGAAATGG	7068	0.0	#DIV/0!	0.0
0	1	0	ATTGAATGTT	7069	#DIV/0!	0.0	#DIV/0!
1	0	0	ATTGACGAAT	7070	0.0	#DIV/0!	0.0
0	1	0	ATTGAGAGAA	7071	#DIV/0!	0.0	#DIV/0!
0	1	0	ATTGATATTT	7072	#DIV/0!	0.0	#DIV/0!
1	0	0	ATTGATTCAA	7073	0.0	#DIV/0!	0.0
1	0	0	ATTGATTCGG	7074	0.0	#DIV/0!	0.0
0	0	1	ATTGCCCGTA	7075	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATTGCCGAGT	7076	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATTGCCGCTC	7077	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATTGCGTTTT	7078	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ATTGCTAATC	7079	0.0	#DIV/0!	0.0
1	0	0	ATTGCTCCAA	7080	0.0	#DIV/0!	0.0
0	0	1	ATTGCTGCAT	7081	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ATTGCTTAGG	7082	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	1	0	ATTGGAACGT	7083	#DIV/0!	0.0	#DIV/0!
0	1	0	ATTGGATGTT	7084	#DIV/0!	0.0	#DIV/0!
1	0	0	ATTGGGAAAC	7085	0.0	#DIV/0!	0.0
1	0	0	ATTGGGAAGA	7086	0.0	#DIV/0!	0.0
0	0	1	ATTGGGAGAC	7087	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ATTGGGTGAC	7088	#DIV/0!	0.0	#DIV/0!
1	0	0	ATTGGGTTGG	7089	0.0	#DIV/0!	0.0
0	0	1	ATTGGTAGTC	7090	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATTGGTCTGG	7091	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ATTGGTTTTT	7092	#DIV/0!	0.0	#DIV/0!
1	0	0	ATTGTAAACG	7093	0.0	#DIV/0!	0.0
1	0	0	ATTGTAAGGT	7094	0.0	#DIV/0!	0.0
0	0	1	ATTGTAGATG	7095	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATTGTAGTTT	7096	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ATTGTCGTGG	7097	#DIV/0!	0.0	#DIV/0!
0	0	1	ATTGTCTTGA	7098	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ATTGTGGTAG	7099	0.0	#DIV/0!	0.0
0	0	1	ATTGTTAGAA	7100	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ATTGTTCCTT	7101	#DIV/0!	0.0	#DIV/0!
1	0	0	ATTGTTGTTT	7102	0.0	#DIV/0!	0.0
0	0	1	ATTGTTTGTC	7103	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ATTTAATGTT	7104	#DIV/0!	0.0	#DIV/0!
0	1	0	ATTTACGTGA	7105	#DIV/0!	0.0	#DIV/0!
0	1	0	ATTTACTCTG	7106	#DIV/0!	0.0	#DIV/0!
0	0	1	ATTTAGTTAA	7107	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATTTATCAAA	7108	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATTTATGATT	7109	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ATTTATGTTG	7110	0.0	#DIV/0!	0.0

Table 5, cont.

1	0	0	ATTTATTAAT	7111	0.0	#DIV/0!	0.0
0	1	0	ATTTATTTTT	7112	#DIV/0!	0.0	#DIV/0!
1	0	0	ATTTCAAAAA	7113	0.0	#DIV/0!	0.0
1	0	0	ATTTCAACGG	7114	0.0	#DIV/0!	0.0
0	1	0	ATTTCAATCA	7115	#DIV/0!	0.0	#DIV/0!
0	0	1	ATTTCAATGG	7116	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ATTTCACCAA	7117	0.0	#DIV/0!	0.0
0	1	0	ATTTCATCCC	7118	#DIV/0!	0.0	#DIV/0!
0	1	0	ATTTCCCCAG	7119	#DIV/0!	0.0	#DIV/0!
0	1	0	ATTTCCGATG	7120	#DIV/0!	0.0	#DIV/0!
0	0	1	ATTTCCTGAG	7121	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ATTTCTCTTC	7122	#DIV/0!	0.0	#DIV/0!
1	0	0	ATTTCTTAGG	7123	0.0	#DIV/0!	0.0
0	0	1	ATTTCTTCAA	7124	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATTTCTTGAA	7125	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATTTCTTTGA	7126	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ATTTGAAAAA	7127	#DIV/0!	0.0	#DIV/0!
0	1	0	ATTTGATATC	7128	#DIV/0!	0.0	#DIV/0!
1	0	0	ATTTGATGAG	7129	0.0	#DIV/0!	0.0
0	1	0	ATTTGATGCA	7130	#DIV/0!	0.0	#DIV/0!
0	0	1	ATTTGATTCT	7131	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATTTGGACGG	7132	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ATTTGGTAGA	7133	#DIV/0!	0.0	#DIV/0!
0	0	1	ATTTGTAGAA	7134	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	ATTTGTCAGC	7135	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ATTTGTTTGA	7136	0.0	#DIV/0!	0.0
0	1	0	ATTTTAAAAA	7137	#DIV/0!	0.0	#DIV/0!
0	1	0	ATTTTAAGTT	7138	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

1	0	0	ATTTTACAGC	7139	0.0	#DIV/0!	0.0
1	0	0	ATTTTAGAAC	7140	0.0	#DIV/0!	0.0
0	1	0	ATTTTAGTAG	7141	#DIV/0!	0.0	#DIV/0!
1	0	0	ATTTTAGTCT	7142	0.0	#DIV/0!	0.0
1	0	0	ATTTTAGTTA	7143	0.0	#DIV/0!	0.0
0	0	1	ATTTTATTCA	7144	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ATTTTATTGT	7145	#DIV/0!	0.0	#DIV/0!
1	0	0	ATTTTCAAAT	7146	0.0	#DIV/0!	0.0
1	0	0	ATTTTCTCTT	7147	0.0	#DIV/0!	0.0
1	0	0	ATTTTCTTCA	7148	0.0	#DIV/0!	0.0
0	1	0	ATTTTCTTGA	7149	#DIV/0!	0.0	#DIV/0!
0	1	0	ATTTTCTTTT	7150	#DIV/0!	0.0	#DIV/0!
1	0	0	ATTTTGAAGG	7151	0.0	#DIV/0!	0.0
0	1	0	ATTTTGAGAA	7152	#DIV/0!	0.0	#DIV/0!
0	1	0	ATTTTGATAC	7153	#DIV/0!	0.0	#DIV/0!
0	1	0	ATTTTGGAAT	7154	#DIV/0!	0.0	#DIV/0!
0	0	1	ATTTTGGCTG	7155	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	ATTTTGTATC	7156	#DIV/0!	0.0	#DIV/0!
0	1	0	ATTTTGTTTA	7157	#DIV/0!	0.0	#DIV/0!
0	0	1	ATTTTTACGC	7158	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	ATTTTTGCGA	7159	0.0	#DIV/0!	0.0
0	1	0	ATTTTTGGCA	7160	#DIV/0!	0.0	#DIV/0!
0	0	1	ATTTTTGTTA	7161	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CAAAAAACCG	7162	#DIV/0!	0.0	#DIV/0!
1	0	0	CAAAAAATTA	7163	0.0	#DIV/0!	0.0
0	0	1	CAAAAACAAC	7164	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CAAAAACGAA	7165	#DIV/0!	0.0	#DIV/0!
0	0	1	CAAAACAACA	7166	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

0	0	1	CAAAACCATC	7167	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CAAAACCCAG	7168	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CAAAACCCAT	7169	#DIV/0!	0.0	#DIV/0!
0	1	0	CAAAAGACGT	7170	#DIV/0!	0.0	#DIV/0!
0	1	0	CAAAAGATTT	7171	#DIV/0!	0.0	#DIV/0!
0	0	1	CAAAAGCCTG	7172	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CAAAATACCG	7173	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CAAAATAGAT	7174	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CAAAATGGAT	7175	#DIV/0!	0.0	#DIV/0!
1	0	0	CAAAATGGCT	7176	0.0	#DIV/0!	0.0
1	0	0	CAAAATTTCC	7177	0.0	#DIV/0!	0.0
0	1	0	CAAACATTTA	7178	#DIV/0!	0.0	#DIV/0!
0	0	1	CAAACCCAGC	7179	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CAAACCGACT	7180	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CAAACTGATT	7181	#DIV/0!	0.0	#DIV/0!
0	1	0	CAAACTGGGT	7182	#DIV/0!	0.0	#DIV/0!
1	0	0	CAAAGACTTC	7183	0.0	#DIV/0!	0.0
0	0	1	CAAAGAGGGG	7184	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CAAAGAGTCA	7185	0.0	#DIV/0!	0.0
0	0	1	CAAAGCAAAT	7186	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CAAAGCATTA	7187	#DIV/0!	0.0	#DIV/0!
1	0	0	CAAAGCCCAA	7188	0.0	#DIV/0!	0.0
1	0	0	CAAAGCCTGC	7189	0.0	#DIV/0!	0.0
0	1	0	CAAAGGAAAA	7190	#DIV/0!	0.0	#DIV/0!
0	1	0	CAAAGGACCG	7191	#DIV/0!	0.0	#DIV/0!
0	0	1	CAAAGGACCT	7192	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CAAAGGACTA	7193	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CAAAGGATTT	7194	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	0	1	CAAAGGTCGT	7195	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CAAAGGTGCG	7196	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CAAAGTCATA	7197	#DIV/0!	0.0	#DIV/0!
0	1	0	CAAAGTCCTT	7198	#DIV/0!	0.0	#DIV/0!
0	1	0	CAAAGTCGAC	7199	#DIV/0!	0.0	#DIV/0!
0	0	1	CAAAGTGGCT	7200	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CAAAGTTGAA	7201	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CAAAGTTTTA	7202	#DIV/0!	0.0	#DIV/0!
0	1	0	CAAATATATT	7203	#DIV/0!	0.0	#DIV/0!
1	0	0	CAAATCTGGA	7204	0.0	#DIV/0!	0.0
1	0	0	CAAATCTTTG	7205	0.0	#DIV/0!	0.0
0	0	1	CAAATGCTGT	7206	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CAAATTCAAG	7207	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CAAATTCTAA	7208	#DIV/0!	0.0	#DIV/0!
0	1	0	CAAATTTAAT	7209	#DIV/0!	0.0	#DIV/0!
0	1	0	CAAATTTGGA	7210	#DIV/0!	0.0	#DIV/0!
0	0	1	CAAATTTGGT	7211	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CAACAAAAGA	7212	0.0	#DIV/0!	0.0
0	1	0	CAACAAGCCA	7213	#DIV/0!	0.0	#DIV/0!
0	1	0	CAACAATTAC	7214	#DIV/0!	0.0	#DIV/0!
1	0	0	CAACAATTGG	7215	0.0	#DIV/0!	0.0
1	0	0	CAACACGGGT	7216	0.0	#DIV/0!	0.0
0	0	1	CAACACTGAA	7217	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CAACCAAGCA	7218	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CAACCAGCTT	7219	#DIV/0!	0.0	#DIV/0!
0	0	1	CAACCCAACT	7220	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CAACCCAATA	7221	#DIV/0!	0.0	#DIV/0!
0	1	0	CAACCGCTTA	7222	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	1	0	CAACCTGTAT	7223	#DIV/0!	0.0	#DIV/0!
1	0	0	CAACGCTTTT	7224	0.0	#DIV/0!	0.0
1	0	0	CAACGTCCGT	7225	0.0	#DIV/0!	0.0
1	0	0	CAACGTCTCC	7226	0.0	#DIV/0!	0.0
0	0	1	CAACGTCTTT	7227	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CAACTATATT	7228	#DIV/0!	0.0	#DIV/0!
0	0	1	CAACTTACTC	7229	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CAACTTCTCC	7230	#DIV/0!	0.0	#DIV/0!
1	0	0	CAACTTGAGG	7231	0.0	#DIV/0!	0.0
0	1	0	CAACTTTATC	7232	#DIV/0!	0.0	#DIV/0!
0	0	1	CAAGAAAAAA	7233	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CAAGAAAAAT	7234	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CAAGAAAATA	7235	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CAAGAAGCGG	7236	#DIV/0!	0.0	#DIV/0!
1	0	0	CAAGAATAAA	7237	0.0	#DIV/0!	0.0
0	1	0	CAAGAGAGGA	7238	#DIV/0!	0.0	#DIV/0!
0	0	1	CAAGAGCTCC	7239	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CAAGAGTATC	7240	0.0	#DIV/0!	0.0
0	1	0	CAAGAGTGCA	7241	#DIV/0!	0.0	#DIV/0!
1	0	0	CAAGATGGCT	7242	0.0	#DIV/0!	0.0
0	0	1	CAAGCACGCC	7243	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CAAGCCGCCG	7244	0.0	#DIV/0!	0.0
1	0	0	CAAGGAGCTA	7245	0.0	#DIV/0!	0.0
1	0	0	CAAGGCGGCT	7246	0.0	#DIV/0!	0.0
0	1	0	CAAGGGAATA	7247	#DIV/0!	0.0	#DIV/0!
1	0	0	CAAGGGATAA	7248	0.0	#DIV/0!	0.0
0	1	0	CAAGTATATA	7249	#DIV/0!	0.0	#DIV/0!
1	0	0	CAAGTATTGA	7250	0.0	#DIV/0!	0.0

Table 5, cont.

1	0	0	CAAGTCTGGA	7251	0.0	#DIV/0!	0.0
0	0	1	CAATAAAACA	7252	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CAATAAAATT	7253	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CAATAATCGG	7254	0.0	#DIV/0!	0.0
1	0	0	CAATAATGGG	7255	0.0	#DIV/0!	0.0
0	0	1	CAATACGTCG	7256	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CAATATCGAA	7257	#DIV/0!	0.0	#DIV/0!
1	0	0	CAATATTTGA	7258	0.0	#DIV/0!	0.0
1	0	0	CAATCAAAAA	7259	0.0	#DIV/0!	0.0
1	0	0	CAATCATCTG	7260	0.0	#DIV/0!	0.0
0	1	0	CAATCCACTT	7261	#DIV/0!	0.0	#DIV/0!
0	1	0	CAATCGCCGG	7262	#DIV/0!	0.0	#DIV/0!
0	0	1	CAATCGTGGT	7263	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CAATCTCAGG	7264	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CAATCTGACA	7265	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CAATGAAAAA	7266	0.0	#DIV/0!	0.0
0	1	0	CAATGATTGA	7267	#DIV/0!	0.0	#DIV/0!
1	0	0	CAATGCAATT	7268	0.0	#DIV/0!	0.0
1	0	0	CAATGCTGAG	7269	0.0	#DIV/0!	0.0
0	0	1	CAATGGACCG	7270	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CAATGGCCAG	7271	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CAATGGTTCC	7272	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CAATGTGCAT	7273	#DIV/0!	0.0	#DIV/0!
0	1	0	CAATGTTTAC	7274	#DIV/0!	0.0	#DIV/0!
0	0	1	CAATTAAAAA	7275	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CAATTATCAA	7276	#DIV/0!	0.0	#DIV/0!
1	0	0	CAATTCTCTA	7277	0.0	#DIV/0!	0.0
1	0	0	CAATTCTTGG	7278	0.0	#DIV/0!	0.0

Table 5, cont.

0	0	1	CAATTGATAT	7279	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CAATTGATCT	7280	#DIV/0!	0.0	#DIV/0!
1	0	0	CAATTGATTA	7281	0.0	#DIV/0!	0.0
0	0	1	CAATTTAAAT	7282	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CAATTTAGCG	7283	0.0	#DIV/0!	0.0
0	1	0	CAATTTGTGT	7284	#DIV/0!	0.0	#DIV/0!
0	0	1	CAATTTTGGT	7285	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CACAAAACCT	7286	#DIV/0!	0.0	#DIV/0!
1	0	0	CACAAAGGGA	7287	0.0	#DIV/0!	0.0
0	1	0	CACAAATTTT	7288	#DIV/0!	0.0	#DIV/0!
0	0	1	CACAACCCAA	7289	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CACAAGTCTA	7290	0.0	#DIV/0!	0.0
1	0	0	CACACATTGA	7291	0.0	#DIV/0!	0.0
1	0	0	CACACCAAAA	7292	0.0	#DIV/0!	0.0
0	0	1	CACACCAAGG	7293	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CACACCAATT	7294	#DIV/0!	0.0	#DIV/0!
0	0	1	CACACCCCGA	7295	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CACACCTAGA	7296	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CACACTTTGA	7297	0.0	#DIV/0!	0.0
0	0	1	CACAGACCAG	7298	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CACAGGTTAC	7299	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CACAGTTTCA	7300	#DIV/0!	0.0	#DIV/0!
0	0	1	CACAGTTTCC	7301	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CACATAAAAA	7302	0.0	#DIV/0!	0.0
0	0	1	CACATAAGGA	7303	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CACATAGAAG	7304	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CACATATATA	7305	0.0	#DIV/0!	0.0
0	1	0	CACATCTCAG	7306	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

1	0	0	CACATTTTTC	7307	0.0	#DIV/0!	0.0
0	0	1	CACATTTTTT	7308	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CACCAAAAAA	7309	0.0	#DIV/0!	0.0
0	0	1	CACCAAAGAA	7310	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CACCAAAGGC	7311	#DIV/0!	0.0	#DIV/0!
0	0	1	CACCAACTAC	7312	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CACCAAGCGT	7313	0.0	#DIV/0!	0.0
0	0	1	CACCATCGAA	7314	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CACCCACCAG	7315	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CACCCAGATT	7316	#DIV/0!	0.0	#DIV/0!
0	0	1	CACCCGCCAG	7317	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CACCGAAAGC	7318	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CACCGCGAAG	7319	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CACCGTAAAA	7320	0.0	#DIV/0!	0.0
0	1	0	CACCTCAAGG	7321	#DIV/0!	0.0	#DIV/0!
1	0	0	CACCTTCAAT	7322	0.0	#DIV/0!	0.0
1	0	0	CACGAAAAAA	7323	0.0	#DIV/0!	0.0
0	1	0	CACGAAGTCG	7324	#DIV/0!	0.0	#DIV/0!
1	0	0	CACGACTACT	7325	0.0	#DIV/0!	0.0
1	0	0	CACGATCGAA	7326	0.0	#DIV/0!	0.0
0	0	1	CACGATTTGA	7327	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CACGGAAAGC	7328	0.0	#DIV/0!	0.0
0	0	1	CACGGCGCCG	7329	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CACGTAAGGG	7330	#DIV/0!	0.0	#DIV/0!
1	0	0	CACGTCCACA	7331	0.0	#DIV/0!	0.0
0	0	1	CACGTTTCTG	7332	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CACTAAACTG	7333	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CACTAACAAG	7334	0.0	#DIV/0!	0.0

Table 5, cont.

0	1	0	CACTAACCAT	7335	#DIV/0!	0.0	#DIV/0!
0	1	0	CACTAATAAA	7336	#DIV/0!	0.0	#DIV/0!
0	1	0	CACTAGTTTC	7337	#DIV/0!	0.0	#DIV/0!
0	0	1	CACTATCATC	7338	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CACTCAACAA	7339	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CACTCACCCA	7340	#DIV/0!	0.0	#DIV/0!
0	1	0	CACTCCAAGA	7341	#DIV/0!	0.0	#DIV/0!
0	0	1	CACTCCGGCC	7342	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CACTCGGGGC	7343	0.0	#DIV/0!	0.0
0	0	1	CACTCTGGGC	7344	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CACTGCTGAT	7345	0.0	#DIV/0!	0.0
0	0	1	CACTGCTTAA	7346	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CACTGGAGTT	7347	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CACTGTCCCC	7348	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CACTGTTTAT	7349	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CACTTCAACG	7350	0.0	#DIV/0!	0.0
0	0	1	CACTTCCACA	7351	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CACTTCGACA	7352	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CACTTCGACT	7353	0.0	#DIV/0!	0.0
0	1	0	CACTTCTGGC	7354	#DIV/0!	0.0	#DIV/0!
0	0	1	CACTTCTTAA	7355	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CACTTGAAAA	7356	0.0	#DIV/0!	0.0
0	0	1	CACTTGAAGC	7357	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CACTTGAGTC	7358	#DIV/0!	0.0	#DIV/0!
0	0	1	CACTTTAAAA	7359	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CACTTTTTAT	7360	#DIV/0!	0.0	#DIV/0!
0	0	1	CAGAAAAGTT	7361	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CAGAAACAAA	7362	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

0	0	1	CAGAAGAAGG	7363	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CAGAAGAGAT	7364	0.0	#DIV/0!	0.0
1	0	0	CAGAAGCTCA	7365	0.0	#DIV/0!	0.0
0	1	0	CAGAATATGC	7366	#DIV/0!	0.0	#DIV/0!
0	0	1	CAGAATGAAT	7367	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CAGAATGATG	7368	#DIV/0!	0.0	#DIV/0!
0	0	1	CAGACAAACT	7369	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CAGACACACA	7370	0.0	#DIV/0!	0.0
0	0	1	CAGACGAAGT	7371	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CAGAGCCAAA	7372	0.0	#DIV/0!	0.0
0	1	0	CAGAGGCGTT	7373	#DIV/0!	0.0	#DIV/0!
1	0	0	CAGAGTTGGT	7374	0.0	#DIV/0!	0.0
0	1	0	CAGATACAGA	7375	#DIV/0!	0.0	#DIV/0!
1	0	0	CAGATATTGA	7376	0.0	#DIV/0!	0.0
0	1	0	CAGATCTATT	7377	#DIV/0!	0.0	#DIV/0!
1	0	0	CAGATCTGAG	7378	0.0	#DIV/0!	0.0
1	0	0	CAGATGGGGG	7379	0.0	#DIV/0!	0.0
0	0	1	CAGATGGTCC	7380	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CAGATTTCAA	7381	0.0	#DIV/0!	0.0
1	0	0	CAGATTTCTC	7382	0.0	#DIV/0!	0.0
0	0	1	CAGATTTTTG	7383	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CAGCAAAACT	7384	0.0	#DIV/0!	0.0
0	0	1	CAGCAAAAGA	7385	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CAGCAGATTG	7386	#DIV/0!	0.0	#DIV/0!
0	1	0	CAGCAGCAAA	7387	#DIV/0!	0.0	#DIV/0!
0	1	0	CAGCAGGTTC	7388	#DIV/0!	0.0	#DIV/0!
0	1	0	CAGCCAAAAA	7389	#DIV/0!	0.0	#DIV/0!
0	0	1	CAGCCAAATA	7390	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

0	1	0	CAGCCAAGAC	7391	#DIV/0!	0.0	#DIV/0!
0	1	0	CAGCCGCTTT	7392	#DIV/0!	0.0	#DIV/0!
0	0	1	CAGCCGGGTC	7393	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CAGCCTTAAA	7394	0.0	#DIV/0!	0.0
0	1	0	CAGCGCAGGC	7395	#DIV/0!	0.0	#DIV/0!
0	0	1	CAGCGGACCC	7396	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CAGCGGTGGT	7397	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CAGCTAACCG	7398	0.0	#DIV/0!	0.0
1	0	0	CAGCTAAGGA	7399	0.0	#DIV/0!	0.0
0	1	0	CAGCTAAGGC	7400	#DIV/0!	0.0	#DIV/0!
1	0	0	CAGCTCTCAC	7401	0.0	#DIV/0!	0.0
0	1	0	CAGCTGACCG	7402	#DIV/0!	0.0	#DIV/0!
1	0	0	CAGCTTTATC	7403	0.0	#DIV/0!	0.0
0	1	0	CAGCTTTCTT	7404	#DIV/0!	0.0	#DIV/0!
0	1	0	CAGCTTTTAA	7405	#DIV/0!	0.0	#DIV/0!
1	0	0	CAGGAAATGG	7406	0.0	#DIV/0!	0.0
1	0	0	CAGGAAGCAG	7407	0.0	#DIV/0!	0.0
1	0	0	CAGGAATAAA	7408	0.0	#DIV/0!	0.0
0	1	0	CAGGAATGCT	7409	#DIV/0!	0.0	#DIV/0!
0	0	1	CAGGACCATC	7410	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CAGGAGAGAT	7411	0.0	#DIV/0!	0.0
0	1	0	CAGGATGTTG	7412	#DIV/0!	0.0	#DIV/0!
1	0	0	CAGGCACTAA	7413	0.0	#DIV/0!	0.0
0	1	0	CAGGCCAGTT	7414	#DIV/0!	0.0	#DIV/0!
0	0	1	CAGGCTCATC	7415	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CAGGGAGTCT	7416	#DIV/0!	0.0	#DIV/0!
0	1	0	CAGGGATCGA	7417	#DIV/0!	0.0	#DIV/0!
0	1	0	CAGGGTAAAA	7418	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	1	0	CAGGTAGGCA	7419	#DIV/0!	0.0	#DIV/0!
0	0	1	CAGGTCTTTG	7420	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CAGGTGATAG	7421	0.0	#DIV/0!	0.0
1	0	0	CAGGTTCTGT	7422	0.0	#DIV/0!	0.0
1	0	0	CAGGTTTGTT	7423	0.0	#DIV/0!	0.0
0	1	0	CAGTAATACT	7424	#DIV/0!	0.0	#DIV/0!
0	0	1	CAGTAATATC	7425	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CAGTACAACT	7426	0.0	#DIV/0!	0.0
0	1	0	CAGTACACCG	7427	#DIV/0!	0.0	#DIV/0!
0	0	1	CAGTAGCAAA	7428	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CAGTATCTAA	7429	0.0	#DIV/0!	0.0
0	0	1	CAGTGCGAAA	7430	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CAGTGGAACA	7431	0.0	#DIV/0!	0.0
0	0	1	CAGTTAAATT	7432	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CAGTTCTTCA	7433	0.0	#DIV/0!	0.0
1	0	0	CAGTTGATTT	7434	0.0	#DIV/0!	0.0
0	1	0	CATAAACTCT	7435	#DIV/0!	0.0	#DIV/0!
0	0	1	CATAAATTAC	7436	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CATAACCTTC	7437	0.0	#DIV/0!	0.0
0	1	0	CATAACTCAT	7438	#DIV/0!	0.0	#DIV/0!
0	1	0	CATAAGCAAC	7439	#DIV/0!	0.0	#DIV/0!
0	1	0	CATAAGTTTT	7440	#DIV/0!	0.0	#DIV/0!
1	0	0	CATAATTTTC	7441	0.0	#DIV/0!	0.0
1	0	0	CATACGCACA	7442	0.0	#DIV/0!	0.0
0	0	1	CATACGTGTA	7443	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CATACTCTCG	7444	#DIV/0!	0.0	#DIV/0!
1	0	0	CATACTTCAT	7445	0.0	#DIV/0!	0.0
1	0	0	CATACTTCGA	7446	0.0	#DIV/0!	0.0

Table 5, cont.

0	0	1	CATAGCCAAT	7447	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CATATAAAGC	7448	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CATATAACTA	7449	#DIV/0!	0.0	#DIV/0!
1	0	0	CATATACATT	7450	0.0	#DIV/0!	0.0
0	1	0	CATATAGAAT	7451	#DIV/0!	0.0	#DIV/0!
0	0	1	CATATAGATA	7452	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CATATATAAA	7453	#DIV/0!	0.0	#DIV/0!
0	0	1	CATATCTCGA	7454	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CATATGTGCT	7455	0.0	#DIV/0!	0.0
1	0	0	CATATTCTGT	7456	0.0	#DIV/0!	0.0
1	0	0	CATATTTGGG	7457	0.0	#DIV/0!	0.0
0	1	0	CATCAAAAAA	7458	#DIV/0!	0.0	#DIV/0!
1	0	0	CATCAAAAGT	7459	0.0	#DIV/0!	0.0
1	0	0	CATCAAGATT	7460	0.0	#DIV/0!	0.0
0	1	0	CATCAATGGA	7461	#DIV/0!	0.0	#DIV/0!
0	1	0	CATCACGTAC	7462	#DIV/0!	0.0	#DIV/0!
0	0	1	CATCACTGAT	7463	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CATCAGAAAT	7464	0.0	#DIV/0!	0.0
1	0	0	CATCAGCTAA	7465	0.0	#DIV/0!	0.0
1	0	0	CATCAGCTCT	7466	0.0	#DIV/0!	0.0
0	1	0	CATCATAAAC	7467	#DIV/0!	0.0	#DIV/0!
0	1	0	CATCATTATA	7468	#DIV/0!	0.0	#DIV/0!
0	0	1	CATCATTCTT	7469	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CATCATTTAA	7470	0.0	#DIV/0!	0.0
1	0	0	CATCCAATCC	7471	0.0	#DIV/0!	0.0
1	0	0	CATCCATTAG	7472	0.0	#DIV/0!	0.0
0	0	1	CATCCTTAAT	7473	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CATCGACACT	7474	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	0	1	CATCGGTCTA	7475	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CATCGGTCTG	7476	0.0	#DIV/0!	0.0
0	1	0	CATCGTTCTT	7477	#DIV/0!	0.0	#DIV/0!
0	1	0	CATCTAAGCC	7478	#DIV/0!	0.0	#DIV/0!
0	1	0	CATCTACACA	7479	#DIV/0!	0.0	#DIV/0!
0	1	0	CATCTACTGG	7480	#DIV/0!	0.0	#DIV/0!
0	1	0	CATCTAGGAG	7481	#DIV/0!	0.0	#DIV/0!
1	0	0	CATCTATTCC	7482	0.0	#DIV/0!	0.0
0	1	0	CATCTCAAAA	7483	#DIV/0!	0.0	#DIV/0!
0	1	0	CATCTCATAT	7484	#DIV/0!	0.0	#DIV/0!
0	1	0	CATCTCTCAA	7485	#DIV/0!	0.0	#DIV/0!
0	0	1	CATCTCTCTT	7486	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CATCTGGAAC	7487	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CATCTTATCT	7488	0.0	#DIV/0!	0.0
0	0	1	CATCTTTACT	7489	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CATCTTTTTT	7490	0.0	#DIV/0!	0.0
0	0	1	CATTAAAAAA	7491	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CATTAAAAGT	7492	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CATTAAAGCG	7493	#DIV/0!	0.0	#DIV/0!
0	0	1	CATTAAGTCT	7494	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CATTAATGTT	7495	#DIV/0!	0.0	#DIV/0!
0	1	0	CATTAGCCTT	7496	#DIV/0!	0.0	#DIV/0!
1	0	0	CATTAGGAAC	7497	0.0	#DIV/0!	0.0
1	0	0	CATTATTAAG	7498	0.0	#DIV/0!	0.0
1	0	0	CATTATTGAA	7499	0.0	#DIV/0!	0.0
0	1	0	CATTCAAAAT	7500	#DIV/0!	0.0	#DIV/0!
0	1	0	CATTCCTATA	7501	#DIV/0!	0.0	#DIV/0!
1	0	0	CATTCCTTAT	7502	0.0	#DIV/0!	0.0

Table 5, cont.

1	0	0	CATTCTGGGC	7503	0.0	#DIV/0!	0.0
0	1	0	CATTCTGTTC	7504	#DIV/0!	0.0	#DIV/0!
0	0	1	CATTGAAGAA	7505	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CATTGAGCAA	7506	#DIV/0!	0.0	#DIV/0!
1	0	0	CATTGAGCCG	7507	0.0	#DIV/0!	0.0
0	0	1	CATTGCAAGT	7508	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CATTGCCATT	7509	#DIV/0!	0.0	#DIV/0!
1	0	0	CATTGGATGG	7510	0.0	#DIV/0!	0.0
0	0	1	CATTTCACCA	7511	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CATTTCTACG	7512	0.0	#DIV/0!	0.0
0	0	1	CATTTCTTAT	7513	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CATTTCTTCT	7514	#DIV/0!	0.0	#DIV/0!
0	1	0	CATTTCTTTA	7515	#DIV/0!	0.0	#DIV/0!
0	1	0	CATTTGAAGG	7516	#DIV/0!	0.0	#DIV/0!
0	1	0	CATTTGATAG	7517	#DIV/0!	0.0	#DIV/0!
0	0	1	CATTTGCAGG	7518	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CATTTGCGTA	7519	#DIV/0!	0.0	#DIV/0!
1	0	0	CATTTGGGTC	7520	0.0	#DIV/0!	0.0
0	1	0	CATTTTACCC	7521	#DIV/0!	0.0	#DIV/0!
0	0	1	CATTTTACCT	7522	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CATTTTATAT	7523	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CATTTTCCCC	7524	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CATTTTTCGA	7525	0.0	#DIV/0!	0.0
1	0	0	CATTTTTTGG	7526	0.0	#DIV/0!	0.0
1	0	0	CATTTTTTTC	7527	0.0	#DIV/0!	0.0
0	1	0	CCAAAAAGGG	7528	#DIV/0!	0.0	#DIV/0!
0	0	1	CCAAAACTTC	7529	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CCAAAAGGGC	7530	0.0	#DIV/0!	0.0

Table 5, cont.

1	0	0	CCAAAATTTG	7531	0.0	#DIV/0!	0.0
0	1	0	CCAAACAGGT	7532	#DIV/0!	0.0	#DIV/0!
0	0	1	CCAAACCGAA	7533	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CCAAACTAGG	7534	#DIV/0!	0.0	#DIV/0!
1	0	0	CCAAAGGTAA	7535	0.0	#DIV/0!	0.0
1	0	0	CCAAAGGTAT	7536	0.0	#DIV/0!	0.0
1	0	0	CCAAAGGTTA	7537	0.0	#DIV/0!	0.0
0	0	1	CCAAAGTGCC	7538	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CCAAAGTGGA	7539	0.0	#DIV/0!	0.0
0	0	1	CCAAATAGTA	7540	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CCAAATCCAT	7541	0.0	#DIV/0!	0.0
0	0	1	CCAAATCTGG	7542	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CCAAATCTTT	7543	#DIV/0!	0.0	#DIV/0!
0	1	0	CCAAATGACG	7544	#DIV/0!	0.0	#DIV/0!
0	1	0	CCAAATGCCA	7545	#DIV/0!	0.0	#DIV/0!
1	0	0	CCAAATTCCA	7546	0.0	#DIV/0!	0.0
0	1	0	CCAACAAATC	7547	#DIV/0!	0.0	#DIV/0!
0	1	0	CCAACGGGAT	7548	#DIV/0!	0.0	#DIV/0!
1	0	0	CCAACGTTAA	7549	0.0	#DIV/0!	0.0
1	0	0	CCAACTAAGT	7550	0.0	#DIV/0!	0.0
1	0	0	CCAACTCAAA	7551	0.0	#DIV/0!	0.0
0	1	0	CCAACTGGAG	7552	0.0	#DIV/0!	0.0
0	1	0	CCAAGAAGTT	7553	#DIV/0!	0.0	#DIV/0!
1	1	0	CCAAGAATTC	7554	#DIV/0!	0.0	#DIV/0!
0	1	0	CCAAGAGCCG	7555	0.0	#DIV/0!	0.0
0	1	0	CCAAGCGTGC	7556	#DIV/0!	0.0	#DIV/0!
0	1	0	CCAAGGATAT	7557	#DIV/0!	0.0	#DIV/0!
0	0	1	CCAAGGGCAT	7558	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

0	0	1	CCAAGGGGAT	7559	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CCAAGGGTAA	7560	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CCAAGGGTCT	7561	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CCAAGGTATC	7562	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CCAAGGTTAT	7563	0.0	#DIV/0!	0.0
1	0	0	CCAAGGTTCT	7564	0.0	#DIV/0!	0.0
0	1	0	CCAAGTACTT	7565	#DIV/0!	0.0	#DIV/0!
0	0	1	CCAAGTGCTA	7566	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CCAATATTTC	7567	#DIV/0!	0.0	#DIV/0!
0	1	0	CCAATCTTCA	7568	#DIV/0!	0.0	#DIV/0!
0	1	0	CCAATGAGCA	7569	#DIV/0!	0.0	#DIV/0!
0	0	1	CCAATGCATT	7570	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CCAATGGAAA	7571	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CCAATTAATT	7572	#DIV/0!	0.0	#DIV/0!
0	1	0	CCAATTCATT	7573	#DIV/0!	0.0	#DIV/0!
1	0	0	CCAATTTTTG	7574	0.0	#DIV/0!	0.0
0	1	0	CCACAAAAAA	7575	#DIV/0!	0.0	#DIV/0!
0	1	0	CCACAATCCT	7576	#DIV/0!	0.0	#DIV/0!
0	1	0	CCACCAATTT	7577	#DIV/0!	0.0	#DIV/0!
1	0	0	CCACCAGATT	7578	0.0	#DIV/0!	0.0
0	1	0	CCACGGCCAC	7579	#DIV/0!	0.0	#DIV/0!
1	0	0	CCACGGTTTT	7580	0.0	#DIV/0!	0.0
0	1	0	CCACTAAAAG	7581	#DIV/0!	0.0	#DIV/0!
1	0	0	CCACTAAAAT	7582	0.0	#DIV/0!	0.0
0	1	0	CCACTCACGG	7583	#DIV/0!	0.0	#DIV/0!
0	1	0	CCACTGACCT	7584	#DIV/0!	0.0	#DIV/0!
1	0	0	CCAGAAAACT	7585	0.0	#DIV/0!	0.0
1	0	0	CCAGAAACAA	7586	0.0	#DIV/0!	0.0

Table 5, cont.

0	1	0	CCAGAAATGA	7587	#DIV/0!	0.0	#DIV/0!
0	0	1	CCAGAACAAA	7588	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CCAGAACTAT	7589	0.0	#DIV/0!	0.0
0	0	1	CCAGAAGCTA	7590	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CCAGAATATC	7591	0.0	#DIV/0!	0.0
1	0	0	CCAGAATTGT	7592	0.0	#DIV/0!	0.0
0	1	0	CCAGAGGCAA	7593	#DIV/0!	0.0	#DIV/0!
0	1	0	CCAGAGTTCA	7594	#DIV/0!	0.0	#DIV/0!
0	1	0	CCAGATATGG	7595	#DIV/0!	0.0	#DIV/0!
0	1	0	CCAGATCTGT	7596	#DIV/0!	0.0	#DIV/0!
0	1	0	CCAGATTAGT	7597	#DIV/0!	0.0	#DIV/0!
0	0	1	CCAGATTATG	7598	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CCAGATTCGT	7599	0.0	#DIV/0!	0.0
0	1	0	CCAGATTTAT	7600	#DIV/0!	0.0	#DIV/0!
0	0	1	CCAGATTTGA	7601	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CCAGATTTGG	7602	#DIV/0!	0.0	#DIV/0!
0	1	0	CCAGCAAGAT	7603	#DIV/0!	0.0	#DIV/0!
1	0	0	CCAGCAGGCG	7604	0.0	#DIV/0!	0.0
0	0	1	CCAGCGAGCG	7605	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CCAGCTGATG	7606	#DIV/0!	0.0	#DIV/0!
1	0	0	CCAGCTTTGG	7607	0.0	#DIV/0!	0.0
0	1	0	CCAGGCATCC	7608	#DIV/0!	0.0	#DIV/0!
0	0	1	CCAGGGACCA	7609	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CCAGGGGAGA	7610	0.0	#DIV/0!	0.0
0	0	1	CCAGGTATGA	7611	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CCAGGTCTGA	7612	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CCAGGTGAAT	7613	0.0	#DIV/0!	0.0
1	0	0	CCAGTAAGAG	7614	0.0	#DIV/0!	0.0

Table 5, cont.

0	0	1	CCAGTATGAC	7615	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CCAGTGAATA	7616	#DIV/0!	0.0	#DIV/0!
0	0	1	CCAGTTTGAG	7617	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CCATAAAGTT	7618	0.0	#DIV/0!	0.0
0	1	0	CCATACAATA	7619	#DIV/0!	0.0	#DIV/0!
0	1	0	CCATACAGGC	7620	#DIV/0!	0.0	#DIV/0!
0	1	0	CCATACTACG	7621	#DIV/0!	0.0	#DIV/0!
0	1	0	CCATAGCTTA	7622	#DIV/0!	0.0	#DIV/0!
0	0	1	CCATATTTCT	7623	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CCATCAAGCC	7624	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CCATCACATC	7625	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CCATCAGTTT	7626	0.0	#DIV/0!	0.0
0	1	0	CCATCCCTAC	7627	#DIV/0!	0.0	#DIV/0!
0	1	0	CCATCCTGGG	7628	#DIV/0!	0.0	#DIV/0!
0	0	1	CCATCGGTAC	7629	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CCATCTCAAA	7630	#DIV/0!	0.0	#DIV/0!
0	1	0	CCATCTTAAC	7631	#DIV/0!	0.0	#DIV/0!
1	0	0	CCATCTTTAG	7632	0.0	#DIV/0!	0.0
0	0	1	CCATCTTTCT	7633	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CCATCTTTGA	7634	0.0	#DIV/0!	0.0
0	0	1	CCATCTTTGC	7635	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CCATTACATT	7636	0.0	#DIV/0!	0.0
1	0	0	CCATTAGAAC	7637	0.0	#DIV/0!	0.0
1	0	0	CCATTATCAA	7638	0.0	#DIV/0!	0.0
0	0	1	CCATTCTGGA	7639	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CCATTCTGGT	7640	0.0	#DIV/0!	0.0
0	1	0	CCATTGAACA	7641	#DIV/0!	0.0	#DIV/0!
0	1	0	CCATTGCTGT	7642	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

1	0	0	CCATTTGGAA	7643	0.0	#DIV/0!	0.0
0	0	1	CCATTTGGAC	7644	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CCATTTTTCA	7645	0.0	#DIV/0!	0.0
0	0	1	CCATTTTTCT	7646	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CCCAAAAAAA	7647	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CCCAAAACTC	7648	#DIV/0!	0.0	#DIV/0!
0	0	1	CCCAAAATGG	7649	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CCCAAAGCTG	7650	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CCCAACTACT	7651	#DIV/0!	0.0	#DIV/0!
1	0	0	CCCAACTCGG	7652	0.0	#DIV/0!	0.0
0	1	0	CCCAACTTTC	7653	#DIV/0!	0.0	#DIV/0!
0	0	1	CCCAATCCAA	7654	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CCCAATTACT	7655	0.0	#DIV/0!	0.0
0	0	1	CCCACCAAGA	7656	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CCCACCATCA	7657	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CCCACCTTAT	7658	0.0	#DIV/0!	0.0
0	1	0	CCCACGGAAG	7659	#DIV/0!	0.0	#DIV/0!
0	1	0	CCCACGGTTC	7660	#DIV/0!	0.0	#DIV/0!
1	0	0	CCCACTCACG	7661	0.0	#DIV/0!	0.0
0	0	1	CCCAGATATG	7662	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CCCAGGGTAT	7663	#DIV/0!	0.0	#DIV/0!
0	1	0	CCCAGTACCG	7664	#DIV/0!	0.0	#DIV/0!
0	0	1	CCCATACTCA	7665	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CCCATCTTTA	7666	0.0	#DIV/0!	0.0
0	1	0	CCCATTGAAA	7667	#DIV/0!	0.0	#DIV/0!
1	0	0	CCCATTTTCT	7668	0.0	#DIV/0!	0.0
0	1	0	CCCCCGTAAC	7669	#DIV/0!	0.0	#DIV/0!
1	0	0	CCCCCGTACA	7670	0.0	#DIV/0!	0.0

Table 5, cont.

0	0	1	CCCCGATTGG	7671	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CCCCGCTGGA	7672	#DIV/0!	0.0	#DIV/0!
1	0	0	CCCCGTACAA	7673	0.0	#DIV/0!	0.0
0	1	0	CCCCGTACAC	7674	#DIV/0!	0.0	#DIV/0!
1	0	0	CCCCGTCCAT	7675	0.0	#DIV/0!	0.0
1	0	0	CCCCTCAAAA	7676	0.0	#DIV/0!	0.0
0	0	1	CCCCTTAATT	7677	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CCCCTTGTCG	7678	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CCCGATGTTG	7679	#DIV/0!	0.0	#DIV/0!
0	0	1	CCCGCCATAA	7680	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CCCGCCGCTC	7681	#DIV/0!	0.0	#DIV/0!
0	1	0	CCCGCGTCTC	7682	#DIV/0!	0.0	#DIV/0!
1	0	0	CCCGGATATG	7683	0.0	#DIV/0!	0.0
0	0	1	CCCGGTTTTC	7684	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CCCGTAATAG	7685	#DIV/0!	0.0	#DIV/0!
1	0	0	CCCTAAAAAA	7686	0.0	#DIV/0!	0.0
0	0	1	CCCTAAAATT	7687	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CCCTAAAGTT	7688	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CCCTACTACG	7689	0.0	#DIV/0!	0.0
0	0	1	CCCTACTGTC	7690	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CCCTAGAAAG	7691	0.0	#DIV/0!	0.0
1	0	0	CCCTCCCTCC	7692	0.0	#DIV/0!	0.0
0	1	0	CCCTCCTATA	7693	#DIV/0!	0.0	#DIV/0!
1	0	0	CCCTGCAAAC	7694	0.0	#DIV/0!	0.0
0	1	0	CCCTGGAAGT	7695	#DIV/0!	0.0	#DIV/0!
1	0	0	CCCTTCCCCT	7696	0.0	#DIV/0!	0.0
0	1	0	CCCTTCTGTG	7697	#DIV/0!	0.0	#DIV/0!
1	0	0	CCCTTGAAAA	7698	0.0	#DIV/0!	0.0

Table 5, cont.

1	0	0	CCGAACCTGT	7699	0.0	#DIV/0!	0.0
0	1	0	CCGAACGGGT	7700	#DIV/0!	0.0	#DIV/0!
0	1	0	CCGACAACGT	7701	#DIV/0!	0.0	#DIV/0!
0	1	0	CCGACAAGTC	7702	#DIV/0!	0.0	#DIV/0!
0	0	1	CCGAGAAGAA	7703	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CCGAGAAGTT	7704	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CCGAGGGTAT	7705	#DIV/0!	0.0	#DIV/0!
0	1	0	CCGATAAAAG	7706	#DIV/0!	0.0	#DIV/0!
1	0	0	CCGATATACT	7707	0.0	#DIV/0!	0.0
0	0	1	CCGATCACAA	7708	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CCGATTGTTT	7709	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CCGCCAGCGC	7710	#DIV/0!	0.0	#DIV/0!
0	1	0	CCGCCGCTAA	7711	#DIV/0!	0.0	#DIV/0!
0	0	1	CCGCCGCTAT	7712	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CCGCTAAAGT	7713	#DIV/0!	0.0	#DIV/0!
0	1	0	CCGCTCCGAA	7714	#DIV/0!	0.0	#DIV/0!
1	0	0	CCGCTGAGTC	7715	0.0	#DIV/0!	0.0
0	0	1	CCGGAAAGCC	7716	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CCGGAACTGC	7717	0.0	#DIV/0!	0.0
1	0	0	CCGGAATGAC	7718	0.0	#DIV/0!	0.0
1	0	0	CCGGACAATG	7719	0.0	#DIV/0!	0.0
0	1	0	CCGGACGCTG	7720	#DIV/0!	0.0	#DIV/0!
1	0	0	CCGGACGGCA	7721	0.0	#DIV/0!	0.0
0	1	0	CCGGACGGTT	7722	#DIV/0!	0.0	#DIV/0!
0	1	0	CCGGATATGA	7723	#DIV/0!	0.0	#DIV/0!
0	1	0	CCGGATCGTC	7724	#DIV/0!	0.0	#DIV/0!
0	0	1	CCGGATTTGT	7725	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CCGGCAAACC	7726	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

1	0	0	CCGGGATTGA	7727	0.0	#DIV/0!	0.0
0	0	1	CCGGGCACTC	7728	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CCGGGTATCG	7729	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CCGGGTCTCA	7730	#DIV/0!	0.0	#DIV/0!
0	0	1	CCGGGTTGGT	7731	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CCGGTTATAA	7732	#DIV/0!	0.0	#DIV/0!
0	0	1	CCGGTTCCGA	7733	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CCGGTTGCAG	7734	#DIV/0!	0.0	#DIV/0!
1	0	0	CCGGTTTAGC	7735	0.0	#DIV/0!	0.0
0	1	0	CCGTAAGTGG	7736	#DIV/0!	0.0	#DIV/0!
0	1	0	CCGTACCTCT	7737	#DIV/0!	0.0	#DIV/0!
0	0	1	CCGTCACTAC	7738	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CCGTCCATCA	7739	#DIV/0!	0.0	#DIV/0!
0	0	1	CCGTCCGTAT	7740	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CCGTCCTCTT	7741	#DIV/0!	0.0	#DIV/0!
0	0	1	CCGTCTGTTT	7742	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CCGTGTATGG	7743	#DIV/0!	0.0	#DIV/0!
0	0	1	CCGTTACCCC	7744	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CCGTTCAACT	7745	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CCGTTGAGGA	7746	#DIV/0!	0.0	#DIV/0!
0	1	0	CCGTTGGCAG	7747	#DIV/0!	0.0	#DIV/0!
0	1	0	CCGTTTTTGA	7748	#DIV/0!	0.0	#DIV/0!
1	0	0	CCGTTTTTGG	7749	0.0	#DIV/0!	0.0
0	0	1	CCTAAAGTTA	7750	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CCTAAGCTAA	7751	0.0	#DIV/0!	0.0
0	0	1	CCTAAGCTGA	7752	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CCTACCGTCT	7753	0.0	#DIV/0!	0.0
1	0	0	CCTACTAAAA	7754	0.0	#DIV/0!	0.0

Table 5, cont.

1	0	0	CCTATAGAAA	7755	0.0	#DIV/0!	0.0
0	1	0	CCTATAGGGC	7756	#DIV/0!	0.0	#DIV/0!
1	0	0	CCTATCTATA	7757	0.0	#DIV/0!	0.0
0	0	1	CCTATTGTTA	7758	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CCTCAACTTA	7759	0.0	#DIV/0!	0.0
0	0	1	CCTCAAGGTT	7760	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CCTCAGAAAG	7761	0.0	#DIV/0!	0.0
1	0	0	CCTCCAATAA	7762	0.0	#DIV/0!	0.0
0	0	1	CCTCCAGCAC	7763	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	'CCTCCATTGA	7764	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CCTCCTAATG	7765	0.0	#DIV/0!	0.0
1	0	0	CCTCCTGGTG	7766	0.0	#DIV/0!	0.0
0	0	1	CCTCTATAGC	7767	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CCTCTCTTGA	7768	#DIV/0!	0.0	#DIV/0!
0	1	0	CCTCTCTTTT	7769	#DIV/0!	0.0	#DIV/0!
1	0	0	CCTCTGAAAG	7770	0.0	#DIV/0!	0.0
0	0	1	CCTCTGGGAA	7771	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CCTCTGGGTA	7772	0.0	#DIV/0!	0.0
0	1	0	CCTCTTAACA	7773	#DIV/0!	0.0	#DIV/0!
0	0	1	CCTGAAGTTT	7774	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CCTGAATAAA	7775	0.0	#DIV/0!	0.0
1	0	0	CCTGAATCTC	7776	0.0	#DIV/0!	0.0
1	0	0	CCTGACGTGT	7777	0.0	#DIV/0!	0.0
1	0	0	CCTGAGGTAT	7778	0.0	#DIV/0!	0.0
0	0	1	CCTGAGTATG	7779	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CCTGATCAAG	7780	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CCTGATGAGG	7781	#DIV/0!	0.0	#DIV/0!
0	1	0	CCTGATTTGT	7782	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

1	0	0	CCTGCAAAAA	7783	0.0	#DIV/0!	0.0
0	0	1	CCTGCAAACC	7784	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CCTGCAAGCG	7785	#DIV/0!	0.0	#DIV/0!
0	1	0	CCTGCTCAAA	7786	#DIV/0!	0.0	#DIV/0!
0	0	1	CCTGGAAGTA	7787	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CCTGGAGCAG	7788	#DIV/0!	0.0	#DIV/0!
0	1	0	CCTGGCGCTC	7789	#DIV/0!	0.0	#DIV/0!
0	1	0	CCTGGGTCGT	7790	#DIV/0!	0.0	#DIV/0!
0	1	0	CCTGGTAATC	7791	#DIV/0!	0.0	#DIV/0!
0	1	0	CCTGGTGTTA	7792	#DIV/0!	0.0	#DIV/0!
0	1	0	CCTGTCGCTG	7793	#DIV/0!	0.0	#DIV/0!
0	1	0	CCTGTGACCA	7794	#DIV/0!	0.0	#DIV/0!
0	1	0	CCTGTGCTTT	7795	#DIV/0!	0.0	#DIV/0!
0	1	0	CCTGTTCTCA	7796	#DIV/0!	0.0	#DIV/0!
1	0	0	CCTTAAAAAA	7797	0.0	#DIV/0!	0.0
1	0	0	CCTTACAATC	7798	0.0	#DIV/0!	0.0
1	0	0	CCTTATGTTG	7799	0.0	#DIV/0!	0.0
0	0	1	CCTTCAACAA	7800	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CCTTCACTTT	7801	#DIV/0!	0.0	#DIV/0!
0	1	0	CCTTCCAGGG	7802	#DIV/0!	0.0	#DIV/0!
1	0	0	CCTTCCGAAT	7803	0.0	#DIV/0!	0.0
0	0	1	CCTTCCTAAA	7804	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CCTTCCTATG	7805	0.0	#DIV/0!	0.0
1	0	0	CCTTCTCGTT	7806	0.0	#DIV/0!	0.0
0	0	1	CCTTCTGCTG	7807	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CCTTCTGTTT	7808	#DIV/0!	0.0	#DIV/0!
1	0	0	CCTTCTTACA	7809	0.0	#DIV/0!	0.0
1	0	0	CCTTGCAAGC	7810	0.0	#DIV/0!	0.0

Table 5, cont.

0	0	1	CCTTGGCATT	7811	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CCTTTAGCCC	7812	#DIV/0!	0.0	#DIV/0!
0	0	1	CCTTTCAGTT	7813	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CCTTTGAGGA	7814	#DIV/0!	0.0	#DIV/0!
1	0	0	CCTTTGAGTG	7815	0.0	#DIV/0!	0.0
0	1	0	CCTTTGATAT	7816	#DIV/0!	0.0	#DIV/0!
0	1	0	CCTTTGCTAA	7817	#DIV/0!	0.0	#DIV/0!
1	0	0	CCTTTGGACC	7818	0.0	#DIV/0!	0.0
0	1	0	CCTTTGGAGA	7819	#DIV/0!	0.0	#DIV/0!
0	0	1	CCTTTTACGT	7820	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CCTTTTATTT	7821	0.0	#DIV/0!	0.0
0	1	0	CCTTTTCGTA	7822	#DIV/0!	0.0	#DIV/0!
1	0	0	CCTTTTTACA	7823	0.0	#DIV/0!	0.0
0	0	1	CCTTTTTTGA	7824	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CGAAAAAAAA	7825	0.0	#DIV/0!	0.0
0	1	0	CGAAAGACTG	7826	#DIV/0!	0.0	#DIV/0!
0	0	1	CGAAATTTTA	7827	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CGAACGAGAA	7828	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CGAACTTTTC	7829	0.0	#DIV/0!	0.0
0	0	1	CGAAGATCTT	7830	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CGAAGATGGC	7831	0.0	#DIV/0!	0.0
1	0	0	CGAAGTTCGC	7832	0.0	#DIV/0!	0.0
0	0	1	CGAATAATCC	7833	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CGAATATTCT	7834	#DIV/0!	0.0	#DIV/0!
0	0	1	CGAATCCGTC	7835	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CGAATCGAGA	7836	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CGAATCTCCC	7837	0.0	#DIV/0!	0.0
1	0	0	CGAATTGCGT	7838	0.0	#DIV/0!	0.0

Table 5, cont.

1	0	0	CGAATTTTTG	7839	0.0	#DIV/0!	0.0
0	0	1	CGACAAACTG	7840	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CGACAGCGGT	7841	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CGACAGTGAC	7842	#DIV/0!	0.0	#DIV/0!
0	1	0	CGACCTTAGT	7843	#DIV/0!	0.0	#DIV/0!
1	0	0	CGACCTTGTT	7844	0.0	#DIV/0!	0.0
0	1	0	CGACGGAGTT	7845	#DIV/0!	0.0	#DIV/0!
0	0	1	CGACGTATTT	7846	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CGACTGGGTT	7847	0.0	#DIV/0!	0.0
1	0	0	CGAGAGAAGA	7848	0.0	#DIV/0!	0.0
0	1	0	CGAGATCACA	7849	#DIV/0!	0.0	#DIV/0!
1	0	0	CGAGATTTAA	7850	0.0	#DIV/0!	0.0
0	0	1	CGAGCAATAG	7851	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CGAGCTTTCA	7852	0.0	#DIV/0!	0.0
0	0	1	CGAGGCGAGA	7853	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CGAGGCTCCG	7854	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CGAGGGAAGC	7855	#DIV/0!	0.0	#DIV/0!
0	0	1	CGAGTCCTTC	7856	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CGAGTGCATA	7857	#DIV/0!	0.0	#DIV/0!
0	1	0	CGATCCTTCA	7858	#DIV/0!	0.0	#DIV/0!
0	1	0	CGATCTTGGA	7859	#DIV/0!	0.0	#DIV/0!
0	1	0	CGATCTTTAC	7860	#DIV/0!	0.0	#DIV/0!
0	1	0	CGATGACAGA	7861	#DIV/0!	0.0	#DIV/0!
0	0	1	CGATGCTCCT	7862	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CGATGGTTCC	7863	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CGATGTGTAA	7864	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CGATTAATCA	7865	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CGATTACAGT	7866	0.0	#DIV/0!	0.0

Table 5, cont.

1	0	0	CGATTCATTT	7867	0.0	#DIV/0!	0.0
0	1	0	CGATTGCACA	7868	#DIV/0!	0.0	#DIV/0!
0	1	0	CGATTGCGCA	7869	#DIV/0!	0.0	#DIV/0!
0	0	1	CGATTTTAAC	7870	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CGATTTTTGA	7871	0.0	#DIV/0!	0.0
0	0	1	CGCAAAAATC	7872	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CGCAAAAGCT	7873	0.0	#DIV/0!	0.0
1	0	0	CGCAACGTGT	7874	0.0	#DIV/0!	0.0
0	1	0	CGCAAGAATT	7875	#DIV/0!	0.0	#DIV/0!
0	1	0	CGCAATATCA	7876	#DIV/0!	0.0	#DIV/0!
1	0	0	CGCACGAGTG	7877	0.0	#DIV/0!	0.0
1	0	0	CGCAGAGGCC	7878	0.0	#DIV/0!	0.0
0	0	1	CGCAGCGGTA	7879	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CGCAGTTATT	7880	0.0	#DIV/0!	0.0
0	1	0	CGCATAAAAA	7881	#DIV/0!	0.0	#DIV/0!
1	0	0	CGCATCTCTT	7882	0.0	#DIV/0!	0.0
0	0	1	CGCATTAGTA	7883	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CGCATTATAT	7884	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CGCATTCGGG	7885	#DIV/0!	0.0	#DIV/0!
1	0	0	CGCATTTAAG	7886	0.0	#DIV/0!	0.0
0	1	0	CGCATTTACA	7887	#DIV/0!	0.0	#DIV/0!
1	0	0	CGCATTTGAC	7888	0.0	#DIV/0!	0.0
0	1	0	CGCCAAAATA	7889	#DIV/0!	0.0	#DIV/0!
1	0	0	CGCCAAATCT	7890	0.0	#DIV/0!	0.0
0	0	1	CGCCACTCAA	7891	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CGCCAGAACC	7892	#DIV/0!	0.0	#DIV/0!
0	1	0	CGCCATTAAA	7893	#DIV/0!	0.0	#DIV/0!
0	0	1	CGCCTGAATG	7894	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

1	0	0	CGCGAAAATA	7895	0.0	#DIV/0!	0.0
0	1	0	CGCGCAATAG	7896	#DIV/0!	0.0	#DIV/0!
0	0	1	CGCGCGTATA	7897	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CGCGCTAAGG	7898	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CGCGTTTGTA	7899	#DIV/0!	0.0	#DIV/0!
0	0	1	CGCTAACTAC	7900	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CGCTAAGTGA	7901	0.0	#DIV/0!	0.0
0	1	0	CGCTACATAT	7902	#DIV/0!	0.0	#DIV/0!
1	0	0	CGCTACGTTC	7903	0.0	#DIV/0!	0.0
1	0	0	CGCTACTGTC	7904	0.0	#DIV/0!	0.0
0	0	1	CGCTCCAACC	7905	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CGCTCTTTCC	7906	#DIV/0!	0.0	#DIV/0!
1	0	0	CGCTGGGTAA	7907	0.0	#DIV/0!	0.0
1	0	0	CGCTTGTGAT	7908	0.0	#DIV/0!	0.0
0	0	1	CGCTTTTGCG	7909	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CGGAAAACTT	7910	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CGGAAAGATG	7911	#DIV/0!	0.0	#DIV/0!
0	1	0	CGGAAGGTCT	7912	#DIV/0!	0.0	#DIV/0!
0	0	1	CGGAATTTGT	7913	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CGGACAAATC	7914	0.0	#DIV/0!	0.0
0	0	1	CGGACCATTG	7915	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CGGACCTGGT	7916	#DIV/0!	0.0	#DIV/0!
0	1	0	CGGACCTTGG	7917	#DIV/0!	0.0	#DIV/0!
0	1	0	CGGAGAATAA	7918	#DIV/0!	0.0	#DIV/0!
1	0	0	CGGAGGGTAT	7919	0.0	#DIV/0!	0.0
0	0	1	CGGATGGTAC	7920	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CGGATTACCA	7921	#DIV/0!	0.0	#DIV/0!
0	0	1	CGGCAAAAAA	7922	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

0	1	0	CGGCAAATTC	7923	#DIV/0!	0.0	#DIV/0!
0	1	0	CGGCCCCGTAG	7924	#DIV/0!	0.0	#DIV/0!
0	0	1	CGGCTCTGGG	7925	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CGGCTTGGGA	7926	#DIV/0!	0.0	#DIV/0!
0	0	1	CGGGAACAAT	7927	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CGGGAATAAT	7928	0.0	#DIV/0!	0.0
0	0	1	CGGGAATTTT	7929	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CGGGACGCCA	7930	0.0	#DIV/0!	0.0
1	0	0	CGGGAGAACT	7931	0.0	#DIV/0!	0.0
0	0	1	CGGGAGCTAA	7932	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CGGGCGTGAA	7933	0.0	#DIV/0!	0.0
1	0	0	CGGGTCATCA	7934	0.0	#DIV/0!	0.0
0	1	0	CGGGTTGATG	7935	#DIV/0!	0.0	#DIV/0!
1	0	0	CGGTAATATA	7936	0.0	#DIV/0!	0.0
0	0	1	CGGTAGCCCA	7937	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CGGTAGTCCG	7938	0.0	#DIV/0!	0.0
0	0	1	CGGTAGTCCT	7939	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CGGTAGTCGA	7940	0.0	#DIV/0!	0.0
0	0	1	CGGTCACCAT	7941	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CGGTCCAAAC	7942	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CGGTCCCATT	7943	0.0	#DIV/0!	0.0
0	1	0	CGGTGAAAGA	7944	#DIV/0!	0.0	#DIV/0!
0	1	0	CGGTGAGTGA	7945	#DIV/0!	0.0	#DIV/0!
0	0	1	CGGTGAGTGG	7946	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CGGTGGCTTA	7947	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CGGTGGTAGA	7948	#DIV/0!	0.0	#DIV/0!
0	0	1	CGGTTAGTAT	7949	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CGGTTTGAGC	7950	0.0	#DIV/0!	0.0

Table 5, cont.

0	0	1	CGGTTTTTCTA	7951	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CGGTTTTGGG	7952	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CGTAAAAAAA	7953	0.0	#DIV/0!	0.0
0	0	1	CGTAAATACC	7954	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CGTAAGAAAA	7955	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CGTAATGTCG	7956	#DIV/0!	0.0	#DIV/0!
0	1	0	CGTACACAAA	7957	#DIV/0!	0.0	#DIV/0!
1	0	0	CGTACAGAAA	7958	0.0	#DIV/0!	0.0
0	0	1	CGTAGCAGTA	7959	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CGTAGGATGA	7960	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CGTAGTAAGT	7961	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CGTATTAGAG	7962	#DIV/0!	0.0	#DIV/0!
0	1	0	CGTATTCATA	7963	#DIV/0!	0.0	#DIV/0!
1	0	0	CGTATTCTGA	7964	0.0	#DIV/0!	0.0
0	0	1	CGTATTTAAA	7965	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CGTCAAAACA	7966	#DIV/0!	0.0	#DIV/0!
1	0	0	CGTCAATATC	7967	0.0	#DIV/0!	0.0
1	0	0	CGTCAGTGTG	7968	0.0	#DIV/0!	0.0
0	0	1	CGTCCAGGAT	7969	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CGTCCATCCG	7970	0.0	#DIV/0!	0.0
0	0	1	CGTCGACATC	7971	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CGTCGAGCTT	7972	0.0	#DIV/0!	0.0
0	1	0	CGTCTTTTTT	7973	#DIV/0!	0.0	#DIV/0!
1	0	0	CGTGAGGTGA	7974	0.0	#DIV/0!	0.0
0	1	0	CGTGCCACCA	7975	#DIV/0!	0.0	#DIV/0!
1	0	0	CGTGCCATAG	7976	0.0	#DIV/0!	0.0
0	1	0	CGTGCCTGCT	7977	#DIV/0!	0.0	#DIV/0!
0	1	0	CGTGCTTTCT	7978	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	0	1	CGTGGAATAT	7979	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CGTTAAATTT	7980	0.0	#DIV/0!	0.0
0	1	0	CGTTACTCAC	7981	#DIV/0!	0.0	#DIV/0!
0	0	1	CGTTACTTGG	7982	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CGTTAGATTC	7983	#DIV/0!	0.0	#DIV/0!
0	1	0	CGTTATTGGC	7984	#DIV/0!	0.0	#DIV/0!
0	0	1	CGTTCAACTT	7985	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CGTTCACTAC	7986	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CGTTCTTCAC	7987	0.0	#DIV/0!	0.0
0	1	0	CGTTGAGAAA	7988	#DIV/0!	0.0	#DIV/0!
1	0	0	CGTTGTAAGA	7989	0.0	#DIV/0!	0.0
0	0	1	CGTTGTGCCT	7990	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CGTTTCAGTG	7991	0.0	#DIV/0!	0.0
1	0	0	CGTTTCCATT	7992	0.0	#DIV/0!	0.0
0	0	1	CGTTTCGGTT	7993	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CGTTTCTTCG	7994	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CGTTTTAAAA	7995	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CGTTTTATAA	7996	#DIV/0!	0.0	#DIV/0!
1	0	0	CGTTTTATAT	7997	0.0	#DIV/0!	0.0
0	0	1	CGTTTTCTTT	7998	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CGTTTTTTTC	7999	#DIV/0!	0.0	#DIV/0!
0	1	0	CTAAAACGGG	8000	#DIV/0!	0.0	#DIV/0!
0	0	1	CTAAAAGAGG	8001	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CTAAAATGTC	8002	#DIV/0!	0.0	#DIV/0!
1	0	0	CTAAAATTTC	8003	0.0	#DIV/0!	0.0
0	0	1	CTAAAGGGGC	8004	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CTAAATCAAA	8005	0.0	#DIV/0!	0.0
1	0	0	CTAAATTTGC	8006	0.0	#DIV/0!	0.0

Table 5, cont.

0	1	0	CTAAGAAACC	8007	#DIV/0!	0.0	#DIV/0!
0	1	0	CTAAGACCGC	8008	#DIV/0!	0.0	#DIV/0!
0	1	0	CTAAGCCTAC	8009	#DIV/0!	0.0	#DIV/0!
0	0	1	CTAAGCGTTA	8010	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CTAAGGGTAT	8011	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CTAATAATAC	8012	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CTAATATTAC	8013	0.0	#DIV/0!	0.0
1	0	0	CTAATCAAAA	8014	0.0	#DIV/0!	0.0
0	1	0	CTAATCACTT	8015	#DIV/0!	0.0	#DIV/0!
1	0	0	CTAATGGGGA	8016	0.0	#DIV/0!	0.0
0	1	0	CTAATTCAAG	8017	#DIV/0!	0.0	#DIV/0!
0	1	0	CTAATTGCAT	8018	#DIV/0!	0.0	#DIV/0!
0	1	0	CTAATTGTCC	8019	#DIV/0!	0.0	#DIV/0!
0	1	0	CTAATTTGCT	8020	#DIV/0!	0.0	#DIV/0!
0	1	0	CTACAACGCG	8021	#DIV/0!	0.0	#DIV/0!
0	1	0	CTACAATCCA	8022	#DIV/0!	0.0	#DIV/0!
1	0	0	CTACATATAT	8023	0.0	#DIV/0!	0.0
0	0	1	CTACATCAAA	8024	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CTACATCGAT	8025	0.0	#DIV/0!	0.0
0	1	0	CTACCCTCGG	8026	#DIV/0!	0.0	#DIV/0!
1	0	0	CTACCGCCTA	8027	0.0	#DIV/0!	0.0
1	0	0	CTACCTTACG	8028	0.0	#DIV/0!	0.0
0	1	0	CTACTGGGCA	8029	#DIV/0!	0.0	#DIV/0!
1	0	0	CTACTTCCAC	8030	0.0	#DIV/0!	0.0
0	1	0	CTAGAAAAAG	8031	#DIV/0!	0.0	#DIV/0!
0	1	0	CTAGAAAGAG	8032	#DIV/0!	0.0	#DIV/0!
0	0	1	CTAGAAAGGT	8033	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CTAGAAGACT	8034	0.0	#DIV/0!	0.0

Table 5, cont.

0	1	0	CTAGAATATT	8035	#DIV/0!	0.0	#DIV/0!
0	0	1	CTAGAATTAC	8036	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CTAGAATTAT	8037	0.0	#DIV/0!	0.0
0	0	1	CTAGACACTC	8038	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CTAGACGCGC	8039	#DIV/0!	0.0	#DIV/0!
1	0	0	CTAGAGACGA	8040	0.0	#DIV/0!	0.0
1	0	0	CTAGATCAGC	8041	0.0	#DIV/0!	0.0
0	0	1	CTAGATTTGT	8042	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CTAGCAACGC	8043	0.0	#DIV/0!	0.0
0	0	1	CTAGCACAGC	8044	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CTAGCAGTTT	8045	#DIV/0!	0.0	#DIV/0!
0	0	1	CTAGCCACTG	8046	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CTAGCCGTAT	8047	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CTAGCGATAT	8048	0.0	#DIV/0!	0.0
0	0	1	CTAGCGTTGT	8049	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CTAGGCGTTA	8050	#DIV/0!	0.0	#DIV/0!
1	0	0	CTAGTAATAG	8051	0.0	#DIV/0!	0.0
0	1	0	CTAGTGACCT	8052	#DIV/0!	0.0	#DIV/0!
1	0	0	CTAGTGCCCA	8053	0.0	#DIV/0!	0.0
0	0	1	CTATAAAAAT	8054	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CTATAAAAGG	8055	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CTATAAAGAA	8056	#DIV/0!	0.0	#DIV/0!
1	0	0	CTATAAAGAC	8057	0.0	#DIV/0!	0.0
0	1	0	CTATAAAGCT	8058	#DIV/0!	0.0	#DIV/0!
1	0	0	CTATACAACA	8059	0.0	#DIV/0!	0.0
1	0	0	CTATATCACT	8060	0.0	#DIV/0!	0.0
0	0	1	CTATATTCAC	8061	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CTATCAAAGA	8062	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	1	0	CTATCAGCAG	8063	#DIV/0!	0.0	#DIV/0!
0	1	0	CTATCCGCCA	8064	#DIV/0!	0.0	#DIV/0!
1	0	0	CTATCGAGTT	8065	0.0	#DIV/0!	0.0
1	0	0	CTATCTAATT	8066	0.0	#DIV/0!	0.0
1	0	0	CTATCTTACA	8067	0.0	#DIV/0!	0.0
0	1	0	CTATCTTTAC	8068	#DIV/0!	0.0	#DIV/0!
1	0	0	CTATGGGGAT	8069	0.0	#DIV/0!	0.0
0	1	0	CTATGTAACT	8070	#DIV/0!	0.0	#DIV/0!
0	1	0	CTATTAGGAC	8071	#DIV/0!	0.0	#DIV/0!
0	0	1	CTATTATATA	8072	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CTATTATATT	8073	#DIV/0!	0.0	#DIV/0!
1	0	0	CTATTCACGA	8074	0.0	#DIV/0!	0.0
1	0	0	CTATTCCTTT	8075	0.0	#DIV/0!	0.0
1	0	0	CTATTCTTAT	8076	0.0	#DIV/0!	0.0
1	0	0	CTATTGATAA	8077	0.0	#DIV/0!	0.0
0	1	0	CTATTGATAC	8078	#DIV/0!	0.0	#DIV/0!
0	1	0	CTATTGCTTG	8079	#DIV/0!	0.0	#DIV/0!
1	0	0	CTATTTCAGA	8080	0.0	#DIV/0!	0.0
0	0	1	CTATTTTTGG	8081	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CTCAAAAAAA	8082	#DIV/0!	0.0	#DIV/0!
0	1	0	CTCAAACCCG	8083	#DIV/0!	0.0	#DIV/0!
0	0	1	CTCAAATTAA	8084	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CTCAAGAGGT	8085	0.0	#DIV/0!	0.0
0	1	0	CTCAAGATCC	8086	#DIV/0!	0.0	#DIV/0!
1	0	0	CTCAAGATGC	8087	0.0	#DIV/0!	0.0
0	1	0	CTCAATCCAC	8088	#DIV/0!	0.0	#DIV/0!
0	0	1	CTCAATCCTA	8089	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CTCAATCTAA	8090	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

1	0	0	CTCAATTGCA	8091	0.0	#DIV/0!	0.0
1	0	0	CTCACAAATA	8092	0.0	#DIV/0!	0.0
1	0	0	CTCACACAAA	8093	0.0	#DIV/0!	0.0
0	0	1	CTCACACCTT	8094	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CTCACATTGA	8095	0.0	#DIV/0!	0.0
0	1	0	CTCACTCAAT	8096	#DIV/0!	0.0	#DIV/0!
0	1	0	CTCAGCAAAT	8097	#DIV/0!	0.0	#DIV/0!
1	0	0	CTCAGCCATT	8098	0.0	#DIV/0!	0.0
0	0	1	CTCAGCTCGC	8099	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CTCAGTATTG	8100	0.0	#DIV/0!	0.0
0	1	0	CTCATAATCG	8101	#DIV/0!	0.0	#DIV/0!
0	1	0	CTCATCAGTA	8102	#DIV/0!	0.0	#DIV/0!
0	0	1	CTCATCCAAG	8103	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CTCATTAACG	8104	#DIV/0!	0.0	#DIV/0!
1	0	0	CTCATTATCT	8105	0.0	#DIV/0!	0.0
0	1	0	CTCATTGATA	8106	#DIV/0!	0.0	#DIV/0!
1	0	0	CTCATTTCTG	8107	0.0	#DIV/0!	0.0
1	0	0	CTCATTTTAT	8108	0.0	#DIV/0!	0.0
0	0	1	CTCCAAGAAA	8109	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CTCCACTGAT	8110	#DIV/0!	0.0	#DIV/0!
0	1	0	CTCCCCATCC	8111	#DIV/0!	0.0	#DIV/0!
1	0	0	CTCCCTCATT	8112	0.0	#DIV/0!	0.0
1	0	0	CTCCGTTTTT	8113	0.0	#DIV/0!	0.0
0	1	0	CTCCTCCATT	8114	#DIV/0!	0.0	#DIV/0!
0	0	1	CTCCTGTTTA	8115	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CTCCTTCTAT	8116	#DIV/0!	0.0	#DIV/0!
1	0	0	CTCGAAAAAG	8117	0.0	#DIV/0!	0.0
0	1	0	CTCGAACAAC	8118	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	0	1	CTCGATAATC	8119	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CTCGATAGAA	8120	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CTCGATGGAG	8121	#DIV/0!	0.0	#DIV/0!
0	1	0	CTCGATGTCG	8122	#DIV/0!	0.0	#DIV/0!
0	0	1	CTCGATTCTT	8123	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CTCGCAAGAT	8124	#DIV/0!	0.0	#DIV/0!
0	1	0	CTCGCATTTA	8125	#DIV/0!	0.0	#DIV/0!
0	0	1	CTCGCCGCAC	8126	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CTCGCCTTCA	8127	0.0	#DIV/0!	0.0
0	1	0	CTCGGCAATA	8128	#DIV/0!	0.0	#DIV/0!
0	0	1	CTCGGGTCAC	8129	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CTCGGTAAAT	8130	#DIV/0!	0.0	#DIV/0!
1	0	0	CTCGGTAAGT	8131	0.0	#DIV/0!	0.0
0	0	1	CTCGTTTCCA	8132	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CTCTAAAAAT	8133	0.0	#DIV/0!	0.0
0	1	0	CTCTAAGAGA	8134	#DIV/0!	0.0	#DIV/0!
1	0	0	CTCTACCGTC	8135	0.0	#DIV/0!	0.0
1	0	0	CTCTACTGAG	8136	0.0	#DIV/0!	0.0
0	0	1	CTCTACTGGC	8137	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CTCTAGAAAA	8138	0.0	#DIV/0!	0.0
0	1	0	CTCTAGAAGA	8139	#DIV/0!	0.0	#DIV/0!
0	1	0	CTCTAGAAGT	8140	#DIV/0!	0.0	#DIV/0!
0	1	0	CTCTAGCAAC	8141	#DIV/0!	0.0	#DIV/0!
1	0	0	CTCTAGCTCC	8142	0.0	#DIV/0!	0.0
0	1	0	CTCTATACCG	8143	#DIV/0!	0.0	#DIV/0!
0	1	0	CTCTCATATC	8144	#DIV/0!	0.0	#DIV/0!
0	1	0	CTCTCATTCA	8145	#DIV/0!	0.0	#DIV/0!
0	1	0	CTCTCCGAAT	8146	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	1	0	CTCTCGGTGT	8147	#DIV/0!	0.0	#DIV/0!
0	1	0	CTCTCTATTC	8148	#DIV/0!	0.0	#DIV/0!
0	0	1	CTCTCTGTCT	8149	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CTCTGAGATA	8150	0.0	#DIV/0!	0.0
1	0	0	CTCTGATACT	8151	0.0	#DIV/0!	0.0
1	0	0	CTCTGCCATC	8152	0.0	#DIV/0!	0.0
1	0	0	CTCTTAATTG	8153	0.0	#DIV/0!	0.0
0	0	1	CTCTTACTGT	8154	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CTCTTCGCCT	8155	#DIV/0!	0.0	#DIV/0!
0	1	0	CTCTTCTTCA	8156	#DIV/0!	0.0	#DIV/0!
0	0	1	CTCTTGGGTT	8157	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CTCTTGTGAA	8158	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CTCTTTAGCA	8159	0.0	#DIV/0!	0.0
1	0	0	CTCTTTATAC	8160	0.0	#DIV/0!	0.0
0	1	0	CTCTTTCATA	8161	#DIV/0!	0.0	#DIV/0!
1	0	0	CTCTTTCTAT	8162	0.0	#DIV/0!	0.0
0	1	0	CTCTTTGAAA	8163	#DIV/0!	0.0	#DIV/0!
0	1	0	CTCTTTGAAT	8164	#DIV/0!	0.0	#DIV/0!
0	1	0	CTCTTTTGAA	8165	#DIV/0!	0.0	#DIV/0!
0	1	0	CTGAAAAAAG	8166	#DIV/0!	0.0	#DIV/0!
0	0	1	CTGAAAAACC	8167	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CTGAAAACAT	8168	#DIV/0!	0.0	#DIV/0!
0	1	0	CTGAAAATAT	8169	#DIV/0!	0.0	#DIV/0!
0	1	0	CTGAAATACT	8170	#DIV/0!	0.0	#DIV/0!
0	0	1	CTGAAATATA	8171	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CTGAAATTAT	8172	#DIV/0!	0.0	#DIV/0!
0	0	1	CTGAAATTTT	8173	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CTGAACGAAG	8174	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	1	0	CTGAACTACA	8175	#DIV/0!	0.0	#DIV/0!
0	0	1	CTGAACTACC	8176	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CTGAAGCAGG	8177	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CTGAAGCAGT	8178	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CTGACAATTT	8179	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CTGACCAAAC	8180	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CTGACCCCTT	8181	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CTGACGGGAC	8182	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CTGAGGGGAC	8183	0.0	#DIV/0!	0.0
0	0	1	CTGATCCGTG	8184	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CTGATGGAAC	8185	#DIV/0!	0.0	#DIV/0!
0	0	1	CTGATTTAGA	8186	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CTGATTTCAA	8187	#DIV/0!	0.0	#DIV/0!
1	0	0	CTGCAAGTAG	8188	0.0	#DIV/0!	0.0
1	0	0	CTGCACGGTA	8189	0.0	#DIV/0!	0.0
0	1	0	CTGCACTGGC	8190	#DIV/0!	0.0	#DIV/0!
1	0	0	CTGCAGCTAA	8191	0.0	#DIV/0!	0.0
0	1	0	CTGCATTAAC	8192	#DIV/0!	0.0	#DIV/0!
0	0	1	CTGCATTACA	8193	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CTGCCAAGTG	8194	#DIV/0!	0.0	#DIV/0!
1	0	0	CTGCCAATGG	8195	0.0	#DIV/0!	0.0
0	0	1	CTGCCAGACA	8196	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CTGCCCCGGT	8197	0.0	#DIV/0!	0.0
1	0	0	CTGCCCTCGG	8198	0.0	#DIV/0!	0.0
1	0	0	CTGCCCTGGG	8199	0.0	#DIV/0!	0.0
0	0	1	CTGCCGGTGA	8200	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CTGCCTCAGC	8201	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CTGCCTCCAC	8202	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

1	0	0	CTGCCTTACA	8203	0.0	#DIV/0!	0.0
1	0	0	CTGCGATTTT	8204	0.0	#DIV/0!	0.0
1	0	0	CTGCGGATTC	8205	0.0	#DIV/0!	0.0
0	1	0	CTGCGGCACT	8206	#DIV/0!	0.0	#DIV/0!
0	0	1	CTGCGTTACC	8207	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CTGCGTTTCT	8208	#DIV/0!	0.0	#DIV/0!
0	1	0	CTGCTAACGG	8209	#DIV/0!	0.0	#DIV/0!
0	1	0	CTGCTATATT	8210	#DIV/0!	0.0	#DIV/0!
1	0	0	CTGCTATGCA	8211	0.0	#DIV/0!	0.0
0	1	0	CTGCTCAAAT	8212	#DIV/0!	0.0	#DIV/0!
1	0	0	CTGCTCAGGG	8213	0.0	#DIV/0!	0.0
1	0	0	CTGCTCTAGG	8214	0.0	#DIV/0!	0.0
0	1	0	CTGCTCTCGG	8215	#DIV/0!	0.0	#DIV/0!
0	0	1	CTGCTCTGGA	8216	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CTGCTCTTGA	8217	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CTGCTGGTGC	8218	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CTGCTTAAAA	8219	0.0	#DIV/0!	0.0
0	0	1	CTGCTTCACG	8220	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CTGCTTGCTG	8221	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CTGCTTTTAG	8222	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CTGGAAAAAA	8223	0.0	#DIV/0!	0.0
0	0	1	CTGGAATGGA	8224	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CTGGACCAAT	8225	0.0	#DIV/0!	0.0
0	0	1	CTGGAGGGAA	8226	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CTGGATATAA	8227	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CTGGATGGGA	8228	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CTGGCATAAC	8229	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CTGGCCAAAA	8230	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	1	0	CTGGCCAGAA	8231	#DIV/0!	0.0	#DIV/0!
0	1	0	CTGGCCTGGG	8232	#DIV/0!	0.0	#DIV/0!
1	0	0	CTGGCGAACC	8233	0.0	#DIV/0!	0.0
0	1	0	CTGGCTCCTT	8234	#DIV/0!	0.0	#DIV/0!
1	0	0	CTGGCTCTGG	8235	0.0	#DIV/0!	0.0
0	1	0	CTGGGTAGTG	8236	#DIV/0!	0.0	#DIV/0!
0	1	0	CTGGGTCCCA	8237	#DIV/0!	0.0	#DIV/0!
0	0	1	CTGGGTGGGC	8238	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CTGGTAAAAT	8239	0.0	#DIV/0!	0.0
1	0	0	CTGGTATTGC	8240	0.0	#DIV/0!	0.0
0	0	1	CTGGTCAAAA	8241	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CTGGTGAAGC	8242	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CTGGTGCTAG	8243	0.0	#DIV/0!	0.0
1	0	0	CTGGTGCTCA	8244	0.0	#DIV/0!	0.0
0	0	1	CTGGTTATTA	8245	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CTGGTTGCAC	8246	#DIV/0!	0.0	#DIV/0!
0	0	1	CTGGTTTATT	8247	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CTGGTTTTTG	8248	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CTGTAAGTCT	8249	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CTGTATATCG	8250	#DIV/0!	0.0	#DIV/0!
1	0	0	CTGTATCGGC	8251	0.0	#DIV/0!	0.0
0	0	1	CTGTATCTGA	8252	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CTGTATGTTC	8253	#DIV/0!	0.0	#DIV/0!
0	0	1	CTGTATTTCA	8254	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CTGTCCCTGA	8255	#DIV/0!	0.0	#DIV/0!
0	0	1	CTGTCCCTTG	8256	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CTGTCCTGAA	8257	#DIV/0!	0.0	#DIV/0!
0	1	0	CTGTCGAGGA	8258	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

1	0	0	CTGTCGTTTG	8259	0.0	#DIV/0!	0.0
0	1	0	CTGTCTAACG	8260	#DIV/0!	0.0	#DIV/0!
0	1	0	CTGTCTCAGA	8261	#DIV/0!	0.0	#DIV/0!
1	0	0	CTGTCTCTCA	8262	0.0	#DIV/0!	0.0
0	0	1	CTGTGAGCAG	8263	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CTGTGATATC	8264	0.0	#DIV/0!	0.0
0	1	0	CTGTGCCGCA	8265	#DIV/0!	0.0	#DIV/0!
1	0	0	CTGTGGTGAA	8266	0.0	#DIV/0!	0.0
1	0	0	CTGTGTTTTT	8267	0.0	#DIV/0!	0.0
0	1	0	CTGTTACTAG	8268	#DIV/0!	0.0	#DIV/0!
0	0	1	CTGTTAGTAT	8269	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CTGTTGGTCG	8270	#DIV/0!	0.0	#DIV/0!
0	1	0	CTGTTGTTGC	8271	#DIV/0!	0.0	#DIV/0!
0	1	0	CTGTTTGGAG	8272	#DIV/0!	0.0	#DIV/0!
0	0	1	CTGTTTTCTT	8273	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CTGTTTTGCA	8274	0.0	#DIV/0!	0.0
0	1	0	CTTAAAATTT	8275	#DIV/0!	0.0	#DIV/0!
0	1	0	CTTAAACCGA	8276	#DIV/0!	0.0	#DIV/0!
0	1	0	CTTAAATCTC	8277	#DIV/0!	0.0	#DIV/0!
1	0	0	CTTAACACTC	8278	0.0	#DIV/0!	0.0
0	1	0	CTTAACCATT	8279	#DIV/0!	0.0	#DIV/0!
1	0	0	CTTAACTAAA	8280	0.0	#DIV/0!	0.0
0	0	1	CTTAAGACAT	8281	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CTTAAGCAGG	8282	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CTTAAGCTGG	8283	0.0	#DIV/0!	0.0
0	1	0	CTTACATTGA	8284	#DIV/0!	0.0	#DIV/0!
1	0	0	CTTACCAGTT	8285	0.0	#DIV/0!	0.0
0	0	1	CTTACTCTTC	8286	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

0	1	0	CTTACTTAGT	8287	#DIV/0!	0.0	#DIV/0!
0	0	1	CTTAGCCCAG	8288	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CTTATAGGCA	8289	#DIV/0!	0.0	#DIV/0!
1	0	0	CTTATATAGA	8290	0.0	#DIV/0!	0.0
0	1	0	CTTATGGAGT	8291	#DIV/0!	0.0	#DIV/0!
0	0	1	CTTATTTATT	8292	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CTTATTTCAA	8293	0.0	#DIV/0!	0.0
1	0	0	CTTCAAAAAA	8294	0.0	#DIV/0!	0.0
0	0	1	CTTCAAACCA	8295	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CTTCAACAAC	8296	#DIV/0!	0.0	#DIV/0!
0	1	0	CTTCAACTCC	8297	#DIV/0!	0.0	#DIV/0!
0	0	1	CTTCAATTCC	8298	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CTTCACATTT	8299	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CTTCACTTGA	8300	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CTTCAGTCCA	8301	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CTTCAGTCGT	8302	#DIV/0!	0.0	#DIV/0!
0	0	1	CTTCATTAAC	8303	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CTTCCAGCTT	8304	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CTTCCCAGGT	8305	#DIV/0!	0.0	#DIV/0!
0	1	0	CTTCCGCGGA	8306	#DIV/0!	0.0	#DIV/0!
0	1	0	CTTCCTTAGG	8307	#DIV/0!	0.0	#DIV/0!
0	0	1	CTTCGGAATT	8308	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CTTCGTCTTG	8309	#DIV/0!	0.0	#DIV/0!
0	1	0	CTTCTACTTT	8310	#DIV/0!	0.0	#DIV/0!
0	0	1	CTTCTCAAGT	8311	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CTTCTCGCAG	8312	#DIV/0!	0.0	#DIV/0!
0	0	1	CTTCTCGTTA	8313	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CTTCTCTGGG	8314	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	1	0	CTTCTGATGT	8315	#DIV/0!	0.0	#DIV/0!
0	1	0	CTTCTGTTCA	8316	#DIV/0!	0.0	#DIV/0!
0	1	0	CTTCTTATAT	8317	#DIV/0!	0.0	#DIV/0!
0	1	0	CTTCTTGGCG	8318	#DIV/0!	0.0	#DIV/0!
0	1	0	CTTGAAAGAG	8319	#DIV/0!	0.0	#DIV/0!
1	0	0	CTTGAATACA	8320	0.0	#DIV/0!	0.0
0	0	1	CTTGAGAACC	8321	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CTTGAGAATC	8322	0.0	#DIV/0!	0.0
1	0	0	CTTGAGATAT	8323	0.0	#DIV/0!	0.0
1	0	0	CTTGAGTTGC	8324	0.0	#DIV/0!	0.0
0	1	0	CTTGATAATC	8325	#DIV/0!	0.0	#DIV/0!
0	1	0	CTTGATGAAT	8326	#DIV/0!	0.0	#DIV/0!
1	0	0	CTTGATGTTT	8327	0.0	#DIV/0!	0.0
0	1	0	CTTGATTATG	8328	#DIV/0!	0.0	#DIV/0!
0	0	1	CTTGCATCTC	8329	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CTTGCGACAG	8330	#DIV/0!	0.0	#DIV/0!
0	1	0	CTTGCTATTT	8331	#DIV/0!	0.0	#DIV/0!
0	0	1	CTTGCTCCAA	8332	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CTTGCTGGCA	8333	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CTTGGAGCAG	8334	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CTTGGCATTA	8335	0.0	#DIV/0!	0.0
0	0	1	CTTGGCTATT	8336	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CTTGGGAAGC	8337	0.0	#DIV/0!	0.0
0	1	0	CTTGGTGGTA	8338	#DIV/0!	0.0	#DIV/0!
1	0	0	CTTGTAATGG	8339	0.0	#DIV/0!	0.0
1	0	0	CTTGTATGGA	8340	0.0	#DIV/0!	0.0
0	0	1	CTTGTATGGT	8341	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CTTGTATGTT	8342	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

1	0	0	CTTGTATTAC	8343	0.0	#DIV/0!	0.0
1	0	0	CTTGTCTGTC	8344	0.0	#DIV/0!	0.0
0	1	0	CTTGTTGCTT	8345	#DIV/0!	0.0	#DIV/0!
1	0	0	CTTTAATTTC	8346	0.0	#DIV/0!	0.0
1	0	0	CTTTACACTC	8347	0.0	#DIV/0!	0.0
0	1	0	CTTTACTTTT	8348	#DIV/0!	0.0	#DIV/0!
0	0	1	CTTTATAAAA	8349	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CTTTATAAAG	8350	0.0	#DIV/0!	0.0
1	0	0	CTTTATACGT	8351	0.0	#DIV/0!	0.0
0	1	0	CTTTCATATA	8352	#DIV/0!	0.0	#DIV/0!
1	0	0	CTTTCATTGA	8353	0.0	#DIV/0!	0.0
0	0	1	CTTTCCAAAC	8354	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CTTTCCAATC	8355	#DIV/0!	0.0	#DIV/0!
0	0	1	CTTTCGCACC	8356	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CTTTCGGAAA	8357	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CTTTCGTAAA	8358	0.0	#DIV/0!	0.0
0	1	0	CTTTCTCTTG	8359	#DIV/0!	0.0	#DIV/0!
1	0	0	CTTTGAAAAA	8360	0.0	#DIV/0!	0.0
0	0	1	CTTTGAAAGC	8361	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	CTTTGAAATG	8362	0.0	#DIV/0!	0.0
0	0	1	CTTTGAACGA	8363	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CTTTGCCAAA	8364	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CTTTGCCCAC	8365	#DIV/0!	0.0	#DIV/0!
0	1	0	CTTTGCTGCT	8366	#DIV/0!	0.0	#DIV/0!
0	0	1	CTTTGCTTAC	8367	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	CTTTGGAACA	8368	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	CTTTGTAATA	8369	#DIV/0!	0.0	#DIV/0!
0	0	1	CTTTGTACAA	8370	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

1	0	0	CTTTGTATAT	8371	0.0	#DIV/0!	0.0
0	1	0	CTTTGTATCT	8372	#DIV/0!	0.0	#DIV/0!
0	1	0	CTTTGTCTCC	8373	#DIV/0!	0.0	#DIV/0!
0	1	0	CTTTGTGACT	8374	#DIV/0!	0.0	#DIV/0!
0	1	0	CTTTTAAAAA	8375	#DIV/0!	0.0	#DIV/0!
0	1	0	CTTTTAACAC	8376	#DIV/0!	0.0	#DIV/0!
0	1	0	CTTTTAAGGA	8377	#DIV/0!	0.0	#DIV/0!
1	0	0	CTTTTAGACT	8378	0.0	#DIV/0!	0.0
1	0	0	CTTTTAGGAA	8379	0.0	#DIV/0!	0.0
0	1	0	CTTTTCAGCT	8380	#DIV/0!	0.0	#DIV/0!
0	1	0	CTTTTCATAC	8381	#DIV/0!	0.0	#DIV/0!
0	1	0	CTTTTCTAGA	8382	#DIV/0!	0.0	#DIV/0!
1	0	0	CTTTTCTTCC	8383	0.0	#DIV/0!	0.0
0	1	0	CTTTTGAAGA	8384	#DIV/0!	0.0	#DIV/0!
1	0	0	CTTTTGTTCT	8385	0.0	#DIV/0!	0.0
0	1	0	CTTTTTCATA	8386	#DIV/0!	0.0	#DIV/0!
0	1	0	CTTTTTCTCG	8387	#DIV/0!	0.0	#DIV/0!
0	1	0	CTTTTTGGAA	8388	#DIV/0!	0.0	#DIV/0!
1	0	0	CTTTTTTATT	8389	0.0	#DIV/0!	0.0
1	0	0	GAAAAAAAGA	8390	0.0	#DIV/0!	0.0
1	0	0	GAAAAAACAT	8391	0.0	#DIV/0!	0.0
1	0	0	GAAAAAACCA	8392	0.0	#DIV/0!	0.0
0	1	0	GAAAAAACTT	8393	#DIV/0!	0.0	#DIV/0!
1	0	0	GAAAAAAGTT	8394	0.0	#DIV/0!	0.0
0	0	1	GAAAAACATT	8395	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	GAAAAACCTC	8396	0.0	#DIV/0!	0.0
0	1	0	GAAAAAGACG	8397	#DIV/0!	0.0	#DIV/0!
0	1	0	GAAAAATTGA	8398	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	0	1	GAAAAATTGG	8399	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GAAAACACCT	8400	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	GAAAACACTA	8401	0.0	#DIV/0!	0.0
0	1	0	GAAAACACTC	8402	#DIV/0!	0.0	#DIV/0!
0	1	0	GAAAACATCC	8403	#DIV/0!	0.0	#DIV/0!
0	0	1	GAAAACATTA	8404	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GAAAACATTT	8405	#DIV/0!	0.0	#DIV/0!
0	1	0	GAAAACCATC	8406	#DIV/0!	0.0	#DIV/0!
0	0	1	GAAAACGTAT	8407	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	GAAAACTGGA	8408	0.0	#DIV/0!	0.0
0	1	0	GAAAACTGGT	8409	#DIV/0!	0.0	#DIV/0!
1	0	0	GAAAACTTGA	8410	0.0	#DIV/0!	0.0
0	1	0	GAAAACTTTG	8411	#DIV/0!	0.0	#DIV/0!
0	0	1	GAAAAGAGCA	8412	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GAAAAGATTA	8413	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GAAAAGCTAG	8414	#DIV/0!	0.0	#DIV/0!
0	0	1	GAAAAGGCCC	8415	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GAAAAGGCGG	8416	#DIV/0!	0.0	#DIV/0!
1	0	0	GAAAAGGTTA	8417	0.0	#DIV/0!	0.0
0	0	1	GAAAAGTACC	8418	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GAAAATACAA	8419	#DIV/0!	0.0	#DIV/0!
0	0	1	GAAAATGACG	8420	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GAAAATGCAA	8421	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GAAAATGCCC	8422	#DIV/0!	0.0	#DIV/0!
0	1	0	GAAAATGTAA	8423	#DIV/0!	0.0	#DIV/0!
0	1	0	GAAAATTACT	8424	#DIV/0!	0.0	#DIV/0!
1	0	0	GAAAATTTCA	8425	0.0	#DIV/0!	0.0
1	0	0	GAAACAAAAC	8426	0.0	#DIV/0!	0.0

Table 5, cont.

1	0	0	GAAACAACTC	8427	0.0	#DIV/0!	0.0
0	1	0	GAAACAAGGG	8428	#DIV/0!	0.0	#DIV/0!
0	0	1	GAAACAGTGT	8429	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GAAACCATAT	8430	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GAAACCCAAA	8431	#DIV/0!	0.0	#DIV/0!
0	0	1	GAAACCGGTG	8432	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GAAACCTGGA	8433	#DIV/0!	0.0	#DIV/0!
0	0	1	GAAACTCGCC	8434	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GAAACTTTTT	8435	#DIV/0!	0.0	#DIV/0!
0	1	0	GAAAGAAAAA	8436	#DIV/0!	0.0	#DIV/0!
0	1	0	GAAAGAAGCG	8437	#DIV/0!	0.0	#DIV/0!
0	0	1	GAAAGAAGCT	8438	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GAAAGACAGA	8439	#DIV/0!	0.0	#DIV/0!
0	0	1	GAAAGAGCTG	8440	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GAAAGAGTTT	8441	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	GAAAGATTGC	8442	0.0	#DIV/0!	0.0
1	0	0	GAAAGATTTT	8443	0.0	#DIV/0!	0.0
0	1	0	GAAAGCATCT	8444	#DIV/0!	0.0	#DIV/0!
0	0	1	GAAAGCCGGT	8445	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	GAAAGCCTTT	8446	0.0	#DIV/0!	0.0
1	0	0	GAAAGCTTTC	8447	0.0	#DIV/0!	0.0
0	1	0	GAAAGTACAA	8448	#DIV/0!	0.0	#DIV/0!
1	0	0	GAAAGTTAGA	8449	0.0	#DIV/0!	0.0
0	1	0	GAAAGTTCGG	8450	#DIV/0!	0.0	#DIV/0!
0	1	0	GAAAGTTTAA	8451	#DIV/0!	0.0	#DIV/0!
0	0	1	GAAATAAGAA	8452	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GAAATATGTA	8453	#DIV/0!	0.0	#DIV/0!
0	0	1	GAAATCAACA	8454	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

0	1	0	GAAATCAGTG	8455	#DIV/0!	0.0	#DIV/0!
0	0	1	GAAATCCAAT	8456	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GAAATCGGGT	8457	#DIV/0!	0.0	#DIV/0!
0	0	1	GAAATCTGCT	8458	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GAAATCTGGG	8459	#DIV/0!	0.0	#DIV/0!
0	0	1	GAAATCTTCG	8460	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GAAATGACAT	8461	#DIV/0!	0.0	#DIV/0!
0	1	0	GAAATGGAAT	8462	#DIV/0!	0.0	#DIV/0!
0	1	0	GAAATGGAGG	8463	#DIV/0!	0.0	#DIV/0!
0	0	1	GAAATGGTAC	8464	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GAAATTAGGG	8465	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GAAATTGATG	8466	#DIV/0!	0.0	#DIV/0!
0	0	1	GAACAAAACA	8467	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GAACAAAGTT	8468	#DIV/0!	0.0	#DIV/0!
0	1	0	GAACAAGGAA	8469	#DIV/0!	0.0	#DIV/0!
1	0	0	GAACAATGTT	8470	0.0	#DIV/0!	0.0
1	0	0	GAACAATTAT	8471	0.0	#DIV/0!	0.0
0	1	0	GAACACATCT	8472	#DIV/0!	0.0	#DIV/0!
0	1	0	GAACACCTCT	8473	#DIV/0!	0.0	#DIV/0!
1	0	0	GAACACTCCT	8474	0.0	#DIV/0!	0.0
0	0	1	GAACACTGCT	8475	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GAACACTTAG	8476	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GAACACTTCA	8477	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	GAACACTTCC	8478	0.0	#DIV/0!	0.0
1	0	0	GAACACTTGT	8479	0.0	#DIV/0!	0.0
0	0	1	GAACACTTTT	8480	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GAACAGACCA	8481	#DIV/0!	0.0	#DIV/0!
0	1	0	GAACAGGTAG	8482	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	1	0	GAACAGTAGT	8483	#DIV/0!	0.0	#DIV/0!
0	1	0	GAACAGTGCC	8484	#DIV/0!	0.0	#DIV/0!
0	1	0	GAACATCTCT	8485	#DIV/0!	0.0	#DIV/0!
0	1	0	GAACATTCTA	8486	#DIV/0!	0.0	#DIV/0!
0	0	1	GAACATTTCT	8487	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	GAACCAGTTC	8488	0.0	#DIV/0!	0.0
0	0	1	GAACCCAATG	8489	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	GAACCGATTT	8490	0.0	#DIV/0!	0.0
0	0	1	GAACCGCTAA	8491	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	GAACCGGTGA	8492	0.0	#DIV/0!	0.0
0	0	1	GAACCTGCCA	8493	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GAACCTGCCG	8494	#DIV/0!	0.0	#DIV/0!
1	0	0	GAACGACCTG	8495	0.0	#DIV/0!	0.0
0	0	1	GAACGAGCAT	8496	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GAACGAGGTT	8497	#DIV/0!	0.0	#DIV/0!
0	1	0	GAACGATATA	8498	#DIV/0!	0.0	#DIV/0!
0	0	1	GAACGCATAC	8499	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GAACGCATCT	8500	#DIV/0!	0.0	#DIV/0!
1	0	0	GAACGCTTTA	8501	0.0	#DIV/0!	0.0
1	0	0	GAACGGACAA	8502	0.0	#DIV/0!	0.0
0	1	0	GAACGGAGAC	8503	#DIV/0!	0.0	#DIV/0!
0	0	1	GAACGGCTCT	8504	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GAACGGGATA	8505	#DIV/0!	0.0	#DIV/0!
1	0	0	GAACGTGAAC	8506	0.0	#DIV/0!	0.0
0	1	0	GAACTAAACT	8507	#DIV/0!	0.0	#DIV/0!
1	0	0	GAACTCCAGA	8508	0.0	#DIV/0!	0.0
0	0	1	GAACTGATAG	8509	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GAACTGGTGC	8510	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

0	1	0	GAACTTGCCG	8511	#DIV/0!	0.0	#DIV/0!
0	1	0	GAACTTTACA	8512	#DIV/0!	0.0	#DIV/0!
0	1	0	GAAGAAAAAA	8513	#DIV/0!	0.0	#DIV/0!
0	1	0	GAAGAAATCG	8514	#DIV/0!	0.0	#DIV/0!
1	0	0	GAAGAAGAAC	8515	0.0	#DIV/0!	0.0
1	0	0	GAAGAAGAAG	8516	0.0	#DIV/0!	0.0
1	0	0	GAAGAAGAGA	8517	0.0	#DIV/0!	0.0
1	0	0	GAAGAATTGA	8518	0.0	#DIV/0!	0.0
0	0	1	GAAGAATTGC	8519	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	GAAGAATTGG	8520	0.0	#DIV/0!	0.0
1	0	0	GAAGACAGAG	8521	0.0	#DIV/0!	0.0
0	1	0	GAAGACATCT	8522	#DIV/0!	0.0	#DIV/0!
1	0	0	GAAGACCTGC	8523	0.0	#DIV/0!	0.0
0	1	0	GAAGACGGTT	8524	#DIV/0!	0.0	#DIV/0!
0	0	1	GAAGACGTGG	8525	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GAAGACTGGT	8526	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GAAGACTGTC	8527	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	GAAGAGAGTG	8528	0.0	#DIV/0!	0.0
0	0	1	GAAGAGATCG	8529	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GAAGAGCGAG	8530	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GAAGAGCGGT	8531	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	GAAGAGTAAA	8532	0.0	#DIV/0!	0.0
0	1	0	GAAGATATCT	8533	#DIV/0!	0.0	#DIV/0!
0	0	1	GAAGATATTG	8534	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GAAGATCCTT	8535	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GAAGATTAGC	8536	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GAAGCAGCAC	8537	#DIV/0!	0.0	#DIV/0!
1	0	0	GAAGCCATCG	8538	0.0	#DIV/0!	0.0

Table 5, cont.

1	0	0	GAAGCCCTCC	8539	0.0	#DIV/0!	0.0
1	0	0	GAAGCCGTAA	8540	0.0	#DIV/0!	0.0
0	1	0	GAAGCCTGAG	8541	#DIV/0!	0.0	#DIV/0!
0	1	0	GAAGCTATCA	8542	#DIV/0!	0.0	#DIV/0!
0	1	0	GAAGCTTTTG	8543	#DIV/0!	0.0	#DIV/0!
0	0	1	GAAGGAAAGC	8544	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GAAGGAAGCA	8545	#DIV/0!	0.0	#DIV/0!
1	0	0	GAAGGACGTG	8546	0.0	#DIV/0!	0.0
0	0	1	GAAGGATGGG	8547	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GAAGGATTAG	8548	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GAAGGATTTA	8549	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GAAGGATTTG	8550	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	GAAGGTTATG	8551	0.0	#DIV/0!	0.0
0	0	1	GAAGGTTTCC	8552	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GAAGTACAAT	8553	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	GAAGTACAGG	8554	0.0	#DIV/0!	0.0
0	0	1	GAAGTAGAGG	8555	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GAAGTAGCAC	8556	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	GAAGTATTAG	8557	0.0	#DIV/0!	0.0
1	0	0	GAAGTCGCTT	8558	0.0	#DIV/0!	0.0
0	0	1	GAAGTGTTTT	8559	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	GAAGTTATTA	8560	0.0	#DIV/0!	0.0
0	1	0	GAAGTTGTAA	8561	#DIV/0!	0.0	#DIV/0!
1	0	0	GAATAAAAGT	8562	0.0	#DIV/0!	0.0
0	0	1	GAATAAGAAT	8563	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	GAATAATAAG	8564	0.0	#DIV/0!	0.0
0	0	1	GAATAATTTG	8565	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GAATACAGCA	8566	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	1	0	GAATACCATA	8567	#DIV/0!	0.0	#DIV/0!
1	0	0	GAATACGAAT	8568	0.0	#DIV/0!	0.0
0	1	0	GAATACTAAA	8569	#DIV/0!	0.0	#DIV/0!
0	0	1	GAATACTACT	8570	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GAATACTAGG	8571	#DIV/0!	0.0	#DIV/0!
1	0	0	GAATACTTAA	8572	0.0	#DIV/0!	0.0
0	0	1	GAATACTTCT	8573	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GAATAGGGAT	8574	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GAATAGGGCT	8575	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GAATATATTA	8576	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	GAATATGGAC	8577	0.0	#DIV/0!	0.0
0	1	0	GAATCCAAAA	8578	#DIV/0!	0.0	#DIV/0!
0	1	0	GAATCCAATA	8579	#DIV/0!	0.0	#DIV/0!
1	0	0	GAATCGGCAT	8580	0.0	#DIV/0!	0.0
0	0	1	GAATCTCTCA	8581	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GAATCTGGAA	8582	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GAATCTGGTA	8583	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GAATCTTGAA	8584	#DIV/0!	0.0	#DIV/0!
0	0	1	GAATGAATTT	8585	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GAATGATAGA	8586	#DIV/0!	0.0	#DIV/0!
0	0	1	GAATGCAAAA	8587	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	GAATGCACAA	8588	0.0	#DIV/0!	0.0
1	0	0	GAATGCTTAC	8589	0.0	#DIV/0!	0.0
0	1	0	GAATGGAACC	8590	#DIV/0!	0.0	#DIV/0!
0	1	0	GAATGGAGAA	8591	#DIV/0!	0.0	#DIV/0!
0	1	0	GAATGGGACG	8592	#DIV/0!	0.0	#DIV/0!
0	0	1	GAATGGGTTA	8593	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	GAATGGGTTT	8594	0.0	#DIV/0!	0.0

Table 5, cont.

1	0	0	GAATGTGATG	8595	0.0	#DIV/0!	0.0
0	1	0	GAATTACCAA	8596	#DIV/0!	0.0	#DIV/0!
1	0	0	GAATTACTTA	8597	0.0	#DIV/0!	0.0
0	0	1	GAATTAGGGG	8598	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GAATTCCTAT	8599	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	GAATTCGGTA	8600	0.0	#DIV/0!	0.0
1	0	0	GAATTGACAG	8601	0.0	#DIV/0!	0.0
1	0	0	GAATTGACGG	8602	0.0	#DIV/0!	0.0
0	0	1	GAATTGAGAG	8603	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GAATTGAGTT	8604	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GAATTTGAAA	8605	#DIV/0!	0.0	#DIV/0!
0	0	1	GAATTTGCTT	8606	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	GACAACTACT	8607	0.0	#DIV/0!	0.0
1	0	0	GACAACTGCT	8608	0.0	#DIV/0!	0.0
0	1	0	GACAAGAAAA	8609	#DIV/0!	0.0	#DIV/0!
1	0	0	GACAAGGAGT	8610	0.0	#DIV/0!	0.0
0	0	1	GACAAGTTGG	8611	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GACAATGGTA	8612	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GACACAATAC	8613	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GACACAGACC	8614	#DIV/0!	0.0	#DIV/0!
0	0	1	GACACAGACG	8615	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	GACACCCACC	8616	0.0	#DIV/0!	0.0
0	1	0	GACACCGTGA	8617	#DIV/0!	0.0	#DIV/0!
1	0	0	GACAGAAAAC	8618	0.0	#DIV/0!	0.0
0	1	0	GACAGAACTT	8619	#DIV/0!	0.0	#DIV/0!
0	0	1	GACAGAAGGT	8620	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	GACAGATCTC	8621	0.0	#DIV/0!	0.0
1	0	0	GACAGATCTT	8622	0.0	#DIV/0!	0.0

Table 5, cont.

0	0	1	GACAGCCAGG	8623	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	GACAGCTTCA	8624	0.0	#DIV/0!	0.0
0	1	0	GACAGGCTTG	8625	#DIV/0!	0.0	#DIV/0!
1	0	0	GACAGGTTCC	8626	0.0	#DIV/0!	0.0
1	0	0	GACAGTGATC	8627	0.0	#DIV/0!	0.0
0	1	0	GACATACGTG	8628	#DIV/0!	0.0	#DIV/0!
0	1	0	GACATATCAT	8629	#DIV/0!	0.0	#DIV/0!
1	0	0	GACATCAAGG	8630	0.0	#DIV/0!	0.0
0	0	1	GACATCGATA	8631	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GACATCTCGA	8632	#DIV/0!	0.0	#DIV/0!
1	0	0	GACATCTTAG	8633	0.0	#DIV/0!	0.0
0	0	1	GACATTACTC	8634	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GACATTGGCC	8635	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GACATTTTCG	8636	#DIV/0!	0.0	#DIV/0!
1	0	0	GACATTTTGA	8637	0.0	#DIV/0!	0.0
0	1	0	GACCAAGAAG	8638	#DIV/0!	0.0	#DIV/0!
0	1	0	GACCACTATT	8639	#DIV/0!	0.0	#DIV/0!
0	1	0	GACCATAAAC	8640	#DIV/0!	0.0	#DIV/0!
0	0	1	GACCATTCTC	8641	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	GACCATTTAA	8642	0.0	#DIV/0!	0.0
1	0	0	GACCATTTGA	8643	0.0	#DIV/0!	0.0
0	1	0	GACCCAACAG	8644	#DIV/0!	0.0	#DIV/0!
1	0	0	GACCCAGATG	8645	0.0	#DIV/0!	0.0
0	0	1	GACCCAGGGC	8646	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GACCCATCAG	8647	#DIV/0!	0.0	#DIV/0!
0	1	0	GACCCCCCTT	8648	#DIV/0!	0.0	#DIV/0!
1	0	0	GACCCTTCCC	8649	0.0	#DIV/0!	0.0
1	0	0	GACCGCACCA	8650	0.0	#DIV/0!	0.0

Table 5, cont.

0	0	1	GACCGCTAAG	8651	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GACCGGCCAG	8652	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	GACCTAAGCT	8653	0.0	#DIV/0!	0.0
0	1	0	GACCTACTCC	8654	#DIV/0!	0.0	#DIV/0!
1	0	0	GACCTCACTG	8655	0.0	#DIV/0!	0.0
0	1	0	GACCTCGGAG	8656	#DIV/0!	0.0	#DIV/0!
0	1	0	GACCTGAAAA	8657	#DIV/0!	0.0	#DIV/0!
0	1	0	GACCTGCGTA	8658	#DIV/0!	0.0	#DIV/0!
0	1	0	GACCTTGCCA	8659	#DIV/0!	0.0	#DIV/0!
0	1	0	GACGAAAGGC	8660	#DIV/0!	0.0	#DIV/0!
0	1	0	GACGAAGAAA	8661	#DIV/0!	0.0	#DIV/0!
0	0	1	GACGACAAGC	8662	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GACGACCTGC	8663	#DIV/0!	0.0	#DIV/0!
0	0	1	GACGAGCACC	8664	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GACGAGGATG	8665	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GACGATATAA	8666	#DIV/0!	0.0	#DIV/0!
0	0	1	GACGATCTTG	8667	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	GACGATGCAA	8668	0.0	#DIV/0!	0.0
0	1	0	GACGCACTTT	8669	#DIV/0!	0.0	#DIV/0!
1	0	0	GACGCCATCA	8670	0.0	#DIV/0!	0.0
1	0	0	GACGCTAATA	8671	0.0	#DIV/0!	0.0
0	0	1	GACGCTTGGA	8672	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GACGGAATAA	8673	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GACGGACCAT	8674	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	GACGTAGAAA	8675	0.0	#DIV/0!	0.0
0	1	0	GACGTAGAAC	8676	#DIV/0!	0.0	#DIV/0!
0	1	0	GACGTCCATC	8677	#DIV/0!	0.0	#DIV/0!
0	1	0	GACGTGAAGG	8678	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

1	0	0	GACGTGGAAA	8679	0.0	#DIV/0!	0.0
0	1	0	GACGTTTAAA	8680	#DIV/0!	0.0	#DIV/0!
1	0	0	GACGTTTACT	8681	0.0	#DIV/0!	0.0
0	1	0	GACTAAATTT	8682	#DIV/0!	0.0	#DIV/0!
0	1	0	GACTAAGCTA	8683	#DIV/0!	0.0	#DIV/0!
0	0	1	GACTACCTTC	8684	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GACTAGACAA	8685	#DIV/0!	0.0	#DIV/0!
0	0	1	GACTAGAGCG	8686	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GACTAGTTTT	8687	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GACTATACCG	8688	#DIV/0!	0.0	#DIV/0!
0	1	0	GACTATTTAC	8689	#DIV/0!	0.0	#DIV/0!
0	0	1	GACTCCGGGA	8690	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	GACTCTCAAG	8691	0.0	#DIV/0!	0.0
0	1	0	GACTCTTATG	8692	#DIV/0!	0.0	#DIV/0!
1	0	0	GACTCTTCGC	8693	0.0	#DIV/0!	0.0
1	0	0	GACTCTTCTC	8694	0.0	#DIV/0!	0.0
0	0	1	GACTGACTCA	8695	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GACTGCAAAA	8696	#DIV/0!	0.0	#DIV/0!
1	0	0	GACTGCTTGT	8697	0.0	#DIV/0!	0.0
0	0	1	GACTGTGCTG	8698	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GACTTACGTA	8699	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GACTTATTGC	8700	#DIV/0!	0.0	#DIV/0!
0	0	1	GACTTCCATA	8701	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GACTTCGAGA	8702	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GACTTCTTGT	8703	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GACTTGTATC	8704	#DIV/0!	0.0	#DIV/0!
1	0	0	GACTTGTTGA	8705	0.0	#DIV/0!	0.0
0	0	1	GACTTTACTT	8706	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

0	0	1	GACTTTTGAA	8707	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	GACTTTTTCA	8708	0.0	#DIV/0!	0.0
0	1	0	GAGAAAACAA	8709	#DIV/0!	0.0	#DIV/0!
0	1	0	GAGAAAACCG	8710	#DIV/0!	0.0	#DIV/0!
0	0	1	GAGAAAGACA	8711	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GAGAAATTGA	8712	#DIV/0!	0.0	#DIV/0!
0	0	1	GAGAAATTGG	8713	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GAGAACAGAA	8714	#DIV/0!	0.0	#DIV/0!
0	1	0	GAGAACATCT	8715	#DIV/0!	0.0	#DIV/0!
1	0	0	GAGAACGTAA	8716	0.0	#DIV/0!	0.0
0	1	0	GAGAAGAACC	8717	#DIV/0!	0.0	#DIV/0!
0	1	0	GAGAAGAGCT	8718	#DIV/0!	0.0	#DIV/0!
0	0	1	GAGAAGCCAG	8719	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GAGAAGTATT	8720	#DIV/0!	0.0	#DIV/0!
0	1	0	GAGAATGCGT	8721	#DIV/0!	0.0	#DIV/0!
0	0	1	GAGACAACTG	8722	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	GAGACACCTT	8723	0.0	#DIV/0!	0.0
0	0	1	GAGACACTCA	8724	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GAGACCATTG	8725	#DIV/0!	0.0	#DIV/0!
0	0	1	GAGACGGATA	8726	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GAGACTGGTT	8727	#DIV/0!	0.0	#DIV/0!
0	0	1	GAGACTTGTC	8728	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GAGAGAACCC	8729	#DIV/0!	0.0	#DIV/0!
1	0	0	GAGAGAAGGC	8730	0.0	#DIV/0!	0.0
1	0	0	GAGAGAGATT	8731	0.0	#DIV/0!	0.0
1	0	0	GAGAGAGTGG	8732	0.0	#DIV/0!	0.0
0	1	0	GAGAGATGAT	8733	#DIV/0!	0.0	#DIV/0!
0	1	0	GAGAGCAAAA	8734	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

1	0	0	GAGAGCAAAT	8735	0.0	#DIV/0!	0.0
0	0	1	GAGAGCAGAA	8736	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	GAGAGCCACC	8737	0.0	#DIV/0!	0.0
0	1	0	GAGAGCGCAA	8738	#DIV/0!	0.0	#DIV/0!
1	0	0	GAGAGCTCAC	8739	0.0	#DIV/0!	0.0
1	0	0	GAGAGGAGCC	8740	0.0	#DIV/0!	0.0
1	0	0	GAGAGTTCGG	8741	0.0	#DIV/0!	0.0
1	0	0	GAGATGCTAT	8742	0.0	#DIV/0!	0.0
0	0	1	GAGATTAGTC	8743	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	GAGCAAAAAA	8744	0.0	#DIV/0!	0.0
0	0	1	GAGCAAAAGT	8745	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GAGCAAATAT	8746	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GAGCAATCCG	8747	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	GAGCAGTTGT	8748	0.0	#DIV/0!	0.0
1	0	0	GAGCATACGG	8749	0.0	#DIV/0!	0.0
1	0	0	GAGCCAATTT	8750	0.0	#DIV/0!	0.0
1	0	0	GAGCCAGCTT	8751	0.0	#DIV/0!	0.0
0	0	1	GAGCCCTGGC	8752	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GAGCCCTGTT	8753	#DIV/0!	0.0	#DIV/0!
1	0	0	GAGCCGTCCA	8754	0.0	#DIV/0!	0.0
0	0	1	GAGCCGTTGT	8755	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	GAGCGAAGTA	8756	0.0	#DIV/0!	0.0
0	1	0	GAGCGACATC	8757	#DIV/0!	0.0	#DIV/0!
0	0	1	GAGCGCATTA	8758	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	GAGCGCGATG	8759	0.0	#DIV/0!	0.0
0	1	0	GAGCGTATAA	8760	#DIV/0!	0.0	#DIV/0!
1	0	0	GAGCGTTGGT	8761	0.0	#DIV/0!	0.0
0	0	1	GAGCTAATGA	8762	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

0	0	1	GAGCTAGATG	8763	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GAGCTCCACC	8764	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	GAGCTCTGTA	8765	0.0	#DIV/0!	0.0
0	0	1	GAGCTTATTA	8766	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GAGCTTGAGA	8767	#DIV/0!	0.0	#DIV/0!
0	1	0	GAGGAAAGTA	8768	#DIV/0!	0.0	#DIV/0!
0	0	1	GAGGAAAGTT	8769	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GAGGAACAGG	8770	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GAGGAATGTA	8771	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	GAGGAATTCA	8772	0.0	#DIV/0!	0.0
1	0	0	GAGGACACCA	8773	0.0	#DIV/0!	0.0
1	0	0	GAGGACGCCC	8774	0.0	#DIV/0!	0.0
0	0	1	GAGGACGCCT	8775	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GAGGACGTGG	8776	#DIV/0!	0.0	#DIV/0!
0	1	0	GAGGAGATTT	8777	#DIV/0!	0.0	#DIV/0!
0	1	0	GAGGAGGCGG	8778	#DIV/0!	0.0	#DIV/0!
0	0	1	GAGGAGGTTG	8779	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GAGGAGTTGC	8780	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	GAGGATAACA	8781	0.0	#DIV/0!	0.0
0	0	1	GAGGATATCG	8782	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GAGGATGAGG	8783	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GAGGATGTCG	8784	#DIV/0!	0.0	#DIV/0!
1	0	0	GAGGCAAAAT	8785	0.0	#DIV/0!	0.0
0	0	1	GAGGCACCTG	8786	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	GAGGCGGACA	8787	0.0	#DIV/0!	0.0
0	1	0	GAGGCGTTTT	8788	#DIV/0!	0.0	#DIV/0!
0	0	1	GAGGCTGATC	8789	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GAGGGAAATA	8790	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	0	1	GAGGGATAAC	8791	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GAGGGATTCA	8792	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GAGGGATTCG	8793	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GAGGGCTCTG	8794	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GAGGGGAATA	8795	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GAGGGGTTCG	8796	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	GAGGGTCTCG	8797	0.0	#DIV/0!	0.0
1	0	0	GAGGGTGGGG	8798	0.0	#DIV/0!	0.0
0	0	1	GAGGGTGGGT	8799	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GAGGTAAAGT	8800	#DIV/0!	0.0	#DIV/0!
1	0	0	GAGGTAGACA	8801	0.0	#DIV/0!	0.0
1	0	0	GAGGTAGTGA	8802	0.0	#DIV/0!	0.0
0	0	1	GAGGTGTTTA	8803	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GAGTAAAAAG	8804	#DIV/0!	0.0	#DIV/0!
0	1	0	GAGTAAACTT	8805	#DIV/0!	0.0	#DIV/0!
1	0	0	GAGTACAATA	8806	0.0	#DIV/0!	0.0
0	1	0	GAGTACCAAC	8807	#DIV/0!	0.0	#DIV/0!
0	1	0	GAGTACTCTT	8808	#DIV/0!	0.0	#DIV/0!
0	1	0	GAGTAGGCCG	8809	#DIV/0!	0.0	#DIV/0!
0	1	0	GAGTATAATA	8810	#DIV/0!	0.0	#DIV/0!
1	0	0	GAGTCAATAG	8811	0.0	#DIV/0!	0.0
0	0	1	GAGTCACAAT	8812	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	GAGTCGCTGA	8813	0.0	#DIV/0!	0.0
0	0	1	GAGTCTCTTC	8814	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	GAGTGAAAAA	8815	0.0	#DIV/0!	0.0
0	0	1	GAGTGCCAAA	8816	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GAGTGGGATA	8817	#DIV/0!	0.0	#DIV/0!
1	0	0	GAGTGTCCAC	8818	0.0	#DIV/0!	0.0

Table 5, cont.

0	1	0	GAGTTATACC	8819	#DIV/0!	0.0	#DIV/0!
0	0	1	GAGTTGCGCC	8820	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	GAGTTGGAAT	8821	0.0	#DIV/0!	0.0
0	0	1	GAGTTTATGA	8822	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GATAAAAAAA	8823	#DIV/0!	0.0	#DIV/0!
1	0	0	GATAAAATAC	8824	0.0	#DIV/0!	0.0
0	1	0	GATAAAGAAC	8825	#DIV/0!	0.0	#DIV/0!
0	0	1	GATAAATACG	8826	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GATAAATCCC	8827	#DIV/0!	0.0	#DIV/0!
0	1	0	GATAACAACA	8828	#DIV/0!	0.0	#DIV/0!
1	0	0	GATAACTATG	8829	0.0	#DIV/0!	0.0
1	0	0	GATAAGATTT	8830	0.0	#DIV/0!	0.0
0	0	1	GATAAGGACT	8831	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GATAAGGCCC	8832	#DIV/0!	0.0	#DIV/0!
0	0	1	GATAAGGCTA	8833	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	GATAAGGTTA	8834	0.0	#DIV/0!	0.0
0	1	0	GATAATACCA	8835	#DIV/0!	0.0	#DIV/0!
0	1	0	GATAATGAAT	8836	#DIV/0!	0.0	#DIV/0!
1	0	0	GATAATGATG	8837	0.0	#DIV/0!	0.0
1	0	0	GATAATTACC	8838	0.0	#DIV/0!	0.0
0	1	0	GATAATTTTG	8839	#DIV/0!	0.0	#DIV/0!
0	0	1	GATACAAATA	8840	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GATACAAGAC	8841	#DIV/0!	0.0	#DIV/0!
1	0	0	GATACAAGGT	8842	0.0	#DIV/0!	0.0
0	0	1	GATACCAATC	8843	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GATACCTGGA	8844	#DIV/0!	0.0	#DIV/0!
1	0	0	GATACGACAA	8845	0.0	#DIV/0!	0.0
0	0	1	GATAGGAAAC	8846	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

0	0	1	GATAGGACAA	8847	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	GATAGGATTA	8848	0.0	#DIV/0!	0.0
0	0	1	GATAGTTAGA	8849	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GATATAAATA	8850	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GATATAATGG	8851	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GATATCTCCA	8852	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GATATGCATA	8853	#DIV/0!	0.0	#DIV/0!
0	1	0	GATATGCGTT	8854	#DIV/0!	0.0	#DIV/0!
0	0	1	GATATGGATA	8855	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GATATGGATG	8856	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	GATATGTGGG	8857	0.0	#DIV/0!	0.0
0	1	0	GATATGTTCT	8858	#DIV/0!	0.0	#DIV/0!
0	0	1	GATATTAAAA	8859	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	GATATTACAA	8860	0.0	#DIV/0!	0.0
0	0	1	GATATTCCAG	8861	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GATATTTCCG	8862	#DIV/0!	0.0	#DIV/0!
0	1	0	GATATTTCTT	8863	#DIV/0!	0.0	#DIV/0!
0	1	0	GATCAACCTC	8864	#DIV/0!	0.0	#DIV/0!
1	0	0	GATCAACGAG	8865	0.0	#DIV/0!	0.0
1	0	0	GATCAAGGTA	8866	0.0	#DIV/0!	0.0
1	0	0	GATCAAGTTA	8867	0.0	#DIV/0!	0.0
1	0	0	GATCACTGGT	8868	0.0	#DIV/0!	0.0
0	0	1	GATCAGAAGT	8869	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GATCAGATTA	8870	#DIV/0!	0.0	#DIV/0!
0	0	1	GATCAGTTGG	8871	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	GATCATCTGG	8872	0.0	#DIV/0!	0.0
0	0	1	GATCCAGTGG	8873	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GATCCCGACG	8874	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	1	0	GATCCGTATA	8875	#DIV/0!	0.0	#DIV/0!
0	0	1	GATCCTTCGC	8876	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GATCCTTTTG	8877	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GATCGAGAAA	8878	#DIV/0!	0.0	#DIV/0!
0	1	0	GATCGCATAT	8879	#DIV/0!	0.0	#DIV/0!
0	0	1	GATCGCCCCT	8880	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	GATCGTACAG	8881	0.0	#DIV/0!	0.0
0	0	1	GATCGTGCTT	8882	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GATCGTGTCT	8883	#DIV/0!	0.0	#DIV/0!
0	0	1	GATCGTTGAA	8884	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GATCGTTTTC	8885	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GATCTATAAA	8886	#DIV/0!	0.0	#DIV/0!
0	0	1	GATCTCACCA	8887	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GATCTTTAAT	8888	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GATGAAAACG	8889	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GATGAAAAGA	8890	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GATGAAATAG	8891	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	GATGAAATTC	8892	0.0	#DIV/0!	0.0
1	0	0	GATGAACAGG	8893	0.0	#DIV/0!	0.0
0	1	0	GATGAAGACA	8894	#DIV/0!	0.0	#DIV/0!
0	0	1	GATGAAGGTT	8895	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GATGACACTT	8896	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GATGACTTGT	8897	#DIV/0!	0.0	#DIV/0!
1	0	0	GATGAGAAAA	8898	0.0	#DIV/0!	0.0
0	1	0	GATGAGACTC	8899	#DIV/0!	0.0	#DIV/0!
0	0	1	GATGAGATCC	8900	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GATGAGATTA	8901	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GATGAGCATT	8902	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

0	1	0	GATGAGGAAA	8903	#DIV/0!	0.0	#DIV/0!
1	0	0	GATGAGTTTC	8904	0.0	#DIV/0!	0.0
0	0	1	GATGATGAAA	8905	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GATGCAAAAA	8906	#DIV/0!	0.0	#DIV/0!
1	0	0	GATGCAAAGG	8907	0.0	#DIV/0!	0.0
0	0	1	GATGCACACG	8908	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GATGCAGCAC	8909	#DIV/0!	0.0	#DIV/0!
0	0	1	GATGCCACAA	8910	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GATGCCATCA	8911	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GATGCCCCAA	8912	#DIV/0!	0.0	#DIV/0!
0	1	0	GATGCGTTAA	8913	#DIV/0!	0.0	#DIV/0!
0	0	1	GATGCTGATC	8914	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GATGGAACAA	8915	#DIV/0!	0.0	#DIV/0!
0	0	1	GATGGAAGGT	8916	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GATGGAGTTA	8917	#DIV/0!	0.0	#DIV/0!
0	0	1	GATGGATGCT	8918	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	GATGGCTTCT	8919	0.0	#DIV/0!	0.0
1	0	0	GATGGGCTCC	8920	0.0	#DIV/0!	0.0
0	1	0	GATGGGGTAG	8921	#DIV/0!	0.0	#DIV/0!
1	0	0	GATGGGTTGT	8922	0.0	#DIV/0!	0.0
1	0	0	GATGGTGGAT	8923	0.0	#DIV/0!	0.0
0	1	0	GATGGTTTTA	8924	#DIV/0!	0.0	#DIV/0!
0	1	0	GATGTAATAT	8925	#DIV/0!	0.0	#DIV/0!
0	1	0	GATGTACAAC	8926	#DIV/0!	0.0	#DIV/0!
1	0	0	GATGTAGAAA	8927	0.0	#DIV/0!	0.0
0	0	1	GATGTATGAA	8928	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GATGTCAAAC	8929	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	GATGTCAACG	8930	0.0	#DIV/0!	0.0

Table 5, cont.

0	0	1	GATGTCACAC	8931	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GATGTCAGGA	8932	#DIV/0!	0.0	#DIV/0!
0	0	1	GATGTCATCC	8933	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	GATGTGACTG	8934	0.0	#DIV/0!	0.0
0	1	0	GATGTGCAAC	8935	#DIV/0!	0.0	#DIV/0!
0	1	0	GATGTTAACG	8936	#DIV/0!	0.0	#DIV/0!
1	0	0	GATGTTCTTG	8937	0.0	#DIV/0!	0.0
0	0	1	GATGTTTTGT	8938	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GATTAACAAA	8939	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GATTAAGAGG	8940	#DIV/0!	0.0	#DIV/0!
0	0	1	GATTAAGGCT	8941	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GATTACCAGA	8942	#DIV/0!	0.0	#DIV/0!
0	1	0	GATTACTAAG	8943	#DIV/0!	0.0	#DIV/0!
0	1	0	GATTACTATC	8944	#DIV/0!	0.0	#DIV/0!
1	0	0	GATTATGGAT	8945	0.0	#DIV/0!	0.0
0	1	0	GATTATTTGT	8946	#DIV/0!	0.0	#DIV/0!
1	0	0	GATTCAACGG	8947	0.0	#DIV/0!	0.0
0	0	1	GATTCACCCC	8948	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GATTCCAACA	8949	#DIV/0!	0.0	#DIV/0!
0	1	0	GATTCCATTG	8950	#DIV/0!	0.0	#DIV/0!
0	0	1	GATTCTCGAA	8951	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GATTGAAAAA	8952	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GATTGAAAAT	8953	#DIV/0!	0.0	#DIV/0!
1	0	0	GATTGAGCAT	8954	0.0	#DIV/0!	0.0
0	0	1	GATTGCAAGA	8955	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	GATTGCATTG	8956	0.0	#DIV/0!	0.0
0	1	0	GATTGCTGAA	8957	#DIV/0!	0.0	#DIV/0!
1	0	0	GATTGTAGAA	8958	0.0	#DIV/0!	0.0

Table 5, cont.

0	1	0	GATTGTCAGT	8959	#DIV/0!	0.0	#DIV/0!
0	1	0	GATTGTCCAA	8960	#DIV/0!	0.0	#DIV/0!
0	1	0	GATTGTCTAC	8961	#DIV/0!	0.0	#DIV/0!
1	0	0	GATTGTCTTT	8962	0.0	#DIV/0!	0.0
1	0	0	GATTGTGACA	8963	0.0	#DIV/0!	0.0
0	0	1	GATTGTTCTG	8964	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	GATTGTTTCT	8965	0.0	#DIV/0!	0.0
1	0	0	GATTTAAAAT	8966	0.0	#DIV/0!	0.0
1	0	0	GATTTAACTC	8967	0.0	#DIV/0!	0.0
0	1	0	GATTTATTGT	8968	#DIV/0!	0.0	#DIV/0!
1	0	0	GATTTCAAAA	8969	0.0	#DIV/0!	0.0
0	1	0	GATTTCAGGA	8970	#DIV/0!	0.0	#DIV/0!
1	0	0	GATTTCGTCA	8971	0.0	#DIV/0!	0.0
0	1	0	GATTTCTACT	8972	#DIV/0!	0.0	#DIV/0!
0	1	0	GATTTCTTGT	8973	#DIV/0!	0.0	#DIV/0!
0	0	1	GATTTGGAGC	8974	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GATTTGGCAA	8975	#DIV/0!	0.0	#DIV/0!
1	0	0	GATTTGGCTG	8976	0.0	#DIV/0!	0.0
0	0	1	GATTTGGTTA	8977	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GATTTTAAAA	8978	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GATTTTATCA	8979	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GATTTTGGTT	8980	#DIV/0!	0.0	#DIV/0!
0	1	0	GATTTTTCTT	8981	#DIV/0!	0.0	#DIV/0!
0	1	0	GATTTTTGAA	8982	#DIV/0!	0.0	#DIV/0!
0	1	0	GATTTTTTAT	8983	#DIV/0!	0.0	#DIV/0!
1	0	0	GCAAAAAAAA	8984	0.0	#DIV/0!	0.0
0	1	0	GCAAAAAATG	8985	#DIV/0!	0.0	#DIV/0!
1	0	0	GCAAAACCTT	8986	0.0	#DIV/0!	0.0

Table 5, cont.

1	0	0	GCAAAACTTT	8987	0.0	#DIV/0!	0.0
0	1	0	GCAAAATATA	8988	#DIV/0!	0.0	#DIV/0!
0	0	1	GCAAAATATT	8989	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GCAAAATTAG	8990	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GCAAACCAAC	8991	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GCAAACTACT	8992	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	GCAAAGACTT	8993	0.0	#DIV/0!	0.0
1	0	0	GCAAAGGATA	8994	0.0	#DIV/0!	0.0
0	1	0	GCAAAGGCGA	8995	#DIV/0!	0.0	#DIV/0!
1	0	0	GCAAAGTTGG	8996	0.0	#DIV/0!	0.0
1	0	0	GCAAATAATA	8997	0.0	#DIV/0!	0.0
0	0	1	GCAAATGGAA	8998	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GCAAATTTGT	8999	#DIV/0!	0.0	#DIV/0!
1	0	0	GCAAATTTTT	9000	0.0	#DIV/0!	0.0
1	0	0	GCAACAAGAA	9001	0.0	#DIV/0!	0.0
0	1	0	GCAACACCCG	9002	#DIV/0!	0.0	#DIV/0!
0	0	1	GCAACACCTT	9003	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GCAACAGAAG	9004	#DIV/0!	0.0	#DIV/0!
0	1	0	GCAACAGGAG	9005	#DIV/0!	0.0	#DIV/0!
0	1	0	GCAACATTCG	9006	#DIV/0!	0.0	#DIV/0!
1	0	0	GCAACCAATG	9007	0.0	#DIV/0!	0.0
0	0	1	GCAACCAATT	9008	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GCAACCCAAT	9009	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GCAACCGGGT	9010	#DIV/0!	0.0	#DIV/0!
0	0	1	GCAACTTTAC	9011	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	GCAACTTTCA	9012	0.0	#DIV/0!	0.0
0	0	1	GCAAGAAAGA	9013	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GCAAGAAGGT	9014	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

0	1	0	GCAAGACATC	9015	#DIV/0!	0.0	#DIV/0!		
0	0	1	GCAAGACCCT	9016	#DIV/0!	#DIV/0!	#DIV/0!		
0	1	0	GCAAGACCTC	9017	#DIV/0!	0.0	#DIV/0!		
1	0	0	GCAAGATCTG	9018	0.0	#DIV/0!	0.0		
0	1	0	GCAAGCAAGC	9019	#DIV/0!	0.0	#DIV/0!		
0	1	0	GCAAGGTATC	9020	#DIV/0!	0.0	#DIV/0!		
0	1	0	GCAAGGTGTT	9021	#DIV/0!	0.0	#DIV/0!		
0	1	0	GCAAGTTCTT	9022	#DIV/0!	0.0	#DIV/0!		
0	1	0	GCAATAAAAA	9023	#DIV/0!	0.0	#DIV/0!		
0	0	1	GCAATACTAA	9024	#DIV/0!	#DIV/0!	#DIV/0!		
0	0	1	GCAATAGTAC	9025	#DIV/0!	#DIV/0!	#DIV/0!		
0	1	0	GCAATATCAC	9026	#DIV/0!	0.0	#DIV/0!		
0	0	1	GCAATATTAC	9027	#DIV/0!	#DIV/0!	#DIV/0!		
0	1	0	GCAATGGCAG	9028	#DIV/0!	0.0	#DIV/0!		
0	0	1	GCAATGGCCA	9029	#DIV/0!	#DIV/0!	#DIV/0!		
1	0	0	GCAATTAGAC	9030	0.0	#DIV/0!	0.0		
0	0	1	GCAATTGGTT	9031	#DIV/0!	#DIV/0!	#DIV/0!		
1	0	0	GCACAATATT	9032	0.0	#DIV/0!	0.0		
0	0	1	GCACACTTCT	9033	#DIV/0!	#DIV/0!	#DIV/0!		
0	1	0	GCACAGGTAT	9034	#DIV/0!	0.0	#DIV/0!		
1	0	0	GCACATCAGC	9035	0.0	#DIV/0!	0.0		
1	0	0	GCACCAATGG	9036	0.0	#DIV/0!	0.0		
1	0	0	GCACCATTTT	9037	0.0	#DIV/0!	0.0		
0	0	1	GCACCCCAAC	9038	#DIV/0!	#DIV/0!	#DIV/0!		
1	0	0	GCACCTGTTA	9039	0.0	#DIV/0!	0.0		
0	0	1	GCACGCCTAT	9040	#DIV/0!	#DIV/0!	#DIV/0!		
0	1	0	GCACGGTAAC	9041	#DIV/0!	0.0	#DIV/0!		
0	1	0	GCACGTAAGG	9042	#DIV/0!	0.0	#DIV/0!		

Table 5, cont.

0	0	1	GCACGTGAGG	9043	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GCACGTGCAT	9044	#DIV/0!	0.0	#DIV/0!
1	0	0	GCACTCTAAT	9045	0.0	#DIV/0!	0.0
0	0	1	GCACTGAATC	9046	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GCACTGAGAA	9047	#DIV/0!	0.0	#DIV/0!
0	0	1	GCACTGAGTC	9048	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GCACTGATCT	9049	#DIV/0!	0.0	#DIV/0!
1	0	0	GCACTGCATA	9050	0.0	#DIV/0!	0.0
0	0	1	GCACTGGAGT	9051	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GCAGAAACAA	9052	#DIV/0!	0.0	#DIV/0!
1	0	0	GCAGAAATTA	9053	0.0	#DIV/0!	0.0
0	0	1	GCAGAACGCC	9054	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GCAGAAGGAT	9055	#DIV/0!	0.0	#DIV/0!
0	0	1	GCAGACCGCT	9056	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GCAGACTTGG	9057	#DIV/0!	0.0	#DIV/0!
1	0	0	GCAGAGATGA	9058	0.0	#DIV/0!	0.0
0	0	1	GCAGATGCTT	9059	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GCAGATTTCA	9060	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	GCAGCACAAA	9061	0.0	#DIV/0!	0.0
1	0	0	GCAGCTACCT	9062	0.0	#DIV/0!	0.0
1	0	0	GCAGCTCTGT	9063	0.0	#DIV/0!	0.0
0	0	1	GCAGCTCTTT	9064	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GCAGGCCAGC	9065	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	GCAGGCCAGG	9066	0.0	#DIV/0!	0.0
0	1	0	GCAGGTGTGT	9067	#DIV/0!	0.0	#DIV/0!
1	0	0	GCAGGTTGGG	9068	0.0	#DIV/0!	0.0
0	1	0	GCAGTAAAAG	9069	#DIV/0!	0.0	#DIV/0!
0	0	1	GCAGTAGAGA	9070	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

1	0	0	GCAGTCGGAT	9071	0.0	#DIV/0!	0.0
0	0	1	GCAGTGCAAG	9072	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GCAGTGGTGA	9073	#DIV/0!	0.0	#DIV/0!
0	1	0	GCAGTTCAAC	9074	#DIV/0!	0.0	#DIV/0!
0	0	1	GCAGTTCTCA	9075	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GCATAACTTG	9076	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GCATACTAAC	9077	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GCATAGGAGT	9078	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	GCATATCATA	9079	0.0	#DIV/0!	0.0
0	1	0	GCATATGTGT	9080	#DIV/0!	0.0	#DIV/0!
1	0	0	GCATATGTTG	9081	0.0	#DIV/0!	0.0
1	0	0	GCATATTGTA	9082	0.0	#DIV/0!	0.0
1	0	0	GCATCATCGC	9083	0.0	#DIV/0!	0.0
0	0	1	GCATCCAACC	9084	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GCATCCCGTG	9085	#DIV/0!	0.0	#DIV/0!
0	0	1	GCATCCGCCC	9086	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GCATCTAGAA	9087	#DIV/0!	0.0	#DIV/0!
0	1	0	GCATCTCCAA	9088	#DIV/0!	0.0	#DIV/0!
0	0	1	GCATCTGTAT	9089	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GCATCTTCAT	9090	#DIV/0!	0.0	#DIV/0!
0	1	0	GCATCTTTCT	9091	#DIV/0!	0.0	#DIV/0!
0	1	0	GCATTACAAA	9092	#DIV/0!	0.0	#DIV/0!
0	0	1	GCATTACTGG	9093	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GCATTCCTGG	9094	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	GCATTGAAAA	9095	0.0	#DIV/0!	0.0
1	0	0	GCATTGGATG	9096	0.0	#DIV/0!	0.0
0	0	1	GCATTGTTTG	9097	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GCATTTGGAT	9098	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

0	1	0	GCATTTTACA	9099	#DIV/0!	0.0	#DIV/0!
0	0	1	GCATTTTCAC	9100	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GCATTTTTCC	9101	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	GCCAAACCGA	9102	0.0	#DIV/0!	0.0
0	0	1	GCCAAGACCT	9103	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GCCAAGGACA	9104	#DIV/0!	0.0	#DIV/0!
0	1	0	GCCAAGGCCT	9105	#DIV/0!	0.0	#DIV/0!
0	0	1	GCCAAGGCTT	9106	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GCCAAGGGCC	9107	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GCCAAGGGTA	9108	#DIV/0!	0.0	#DIV/0!
0	0	1	GCCAATACTA	9109	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	GCCAATCAAA	9110	0.0	#DIV/0!	0.0
0	1	0	GCCAATGCAA	9111	#DIV/0!	0.0	#DIV/0!
0	0	1	GCCAATGCTG	9112	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GCCAATGGCC	9113	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GCCAATGTCA	9114	#DIV/0!	0.0	#DIV/0!
0	1	0	GCCAATTAAT	9115	#DIV/0!	0.0	#DIV/0!
0	1	0	GCCAATTATT	9116	#DIV/0!	0.0	#DIV/0!
0	0	1	GCCACATTCT	9117	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GCCACGACTA	9118	#DIV/0!	0.0	#DIV/0!
0	1	0	GCCACGATGC	9119	#DIV/0!	0.0	#DIV/0!
0	0	1	GCCACGGTCC	9120	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GCCACTAGAG	9121	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	GCCAGATATG	9122	0.0	#DIV/0!	0.0
0	1	0	GCCAGCACTA	9123	#DIV/0!	0.0	#DIV/0!
1	0	0	GCCAGGACAA	9124	0.0	#DIV/0!	0.0
0	1	0	GCCATACTCG	9125	#DIV/0!	0.0	#DIV/0!
1	0	0	GCCATAGTAG	9126	0.0	#DIV/0!	0.0

Table 5, cont.

1	0	0	GCCATATCCA	9127	0.0	#DIV/0!	0.0
0	0	1	GCCATTACTT	9128	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	GCCATTCTTG	9129	0.0	#DIV/0!	0.0
1	0	0	GCCATTGCGG	9130	0.0	#DIV/0!	0.0
0	1	0	GCCATTTGCT	9131	#DIV/0!	0.0	#DIV/0!
0	1	0	GCCCATTACT	9132	#DIV/0!	0.0	#DIV/0!
1	0	0	GCCCATTTTT	9133	0.0	#DIV/0!	0.0
0	1	0	GCCCCAGCTC	9134	#DIV/0!	0.0	#DIV/0!
0	1	0	GCCCGCAAAG	9135	#DIV/0!	0.0	#DIV/0!
1	0	0	GCCCGGCCGC	9136	0.0	#DIV/0!	0.0
0	1	0	GCCCTCCCCC	9137	#DIV/0!	0.0	#DIV/0!
0	0	1	GCCCTGGCCA	9138	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	GCCCTGTTGG	9139	0.0	#DIV/0!	0.0
0	0	1	GCCCTTCCTT	9140	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GCCGAACTCA	9141	#DIV/0!	0.0	#DIV/0!
0	0	1	GCCGCACTTG	9142	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GCCGCATACA	9143	#DIV/0!	0.0	#DIV/0!
1	0	0	GCCGCCAGAC	9144	0.0	#DIV/0!	0.0
1	0	0	GCCGCGTGAT	9145	0.0	#DIV/0!	0.0
1	0	0	GCCGCTAGAC	9146	0.0	#DIV/0!	0.0
0	1	0	GCCGCTAGCA	9147	#DIV/0!	0.0	#DIV/0!
0	1	0	GCCGCTATGC	9148	#DIV/0!	0.0	#DIV/0!
0	1	0	GCCGCTGCTA	9149	#DIV/0!	0.0	#DIV/0!
0	0	1	GCCGCTTCGT	9150	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	GCCGGCAGAT	9151	0.0	#DIV/0!	0.0
0	1	0	GCCGGGGGTA	9152	#DIV/0!	0.0	#DIV/0!
1	0	0	GCCGGTGCGG	9153	0.0	#DIV/0!	0.0
1	0	0	GCCGTGGAGT	9154	0.0	#DIV/0!	0.0

Table 5, cont.

0	0	1	GCCGTTACAG	9155	#DIV/0!	#DIV/0!	#DIV/0!	
0	0	1	GCCGTTAGTA	9156	#DIV/0!	#DIV/0!	#DIV/0!	
0	0	1	GCCTAATTTA	9157	#DIV/0!	#DIV/0!	#DIV/0!	
0	1	0	GCCTATTCCT	9158	#DIV/0!	0.0	#DIV/0!	
0	0	1	GCCTCAAAGG	9159	#DIV/0!	#DIV/0!	#DIV/0!	
1	0	0	GCCTCCCCCA	9160	0.0	#DIV/0!	0.0	
0	0	1	GCCTCGGGGG	9161	#DIV/0!	#DIV/0!	#DIV/0!	
0	1	0	GCCTCGGTTA	9162	#DIV/0!	0.0	#DIV/0!	
1	0	0	GCCTCTACGG	9163	0.0	#DIV/0!	0.0	
1	0	0	GCCTCTTTCT	9164	0.0	#DIV/0!	0.0	
0	1	0	GCCTGGATAT	9165	#DIV/0!	0.0	#DIV/0!	
0	0	1	GCCTGGCGTG	9166	#DIV/0!	#DIV/0!	#DIV/0!	
1	0	0	GCCTGTCTTG	9167	0.0	#DIV/0!	0.0	
0	0	1	GCCTGTTGAG	9168	#DIV/0!	#DIV/0!	#DIV/0!	
0	0	1	GCCTTAAGTT	9169	#DIV/0!	#DIV/0!	#DIV/0!	
0	0	1	GCCTTAGCGC	9170	#DIV/0!	#DIV/0!	#DIV/0!	
1	0	0	GCCTTCAACT	9171	0.0	#DIV/0!	0.0	
0	0	1	GCCTTCAGGC	9172	#DIV/0!	#DIV/0!	#DIV/0!	
0	1	0	GCCTTCATAT	9173	#DIV/0!	0.0	#DIV/0!	
0	1	0	GCCTTCCACA	9174	#DIV/0!	0.0	#DIV/0!	
0	1	0	GCCTTGACAA	9175	#DIV/0!	0.0	#DIV/0!	
0	1	0	GCCTTGATCT	9176	#DIV/0!	0.0	#DIV/0!	
0	0	1	GCCTTGCAAA	9177	#DIV/0!	#DIV/0!	#DIV/0!	
0	1	0	GCCTTGGATA	9178	#DIV/0!	0.0	#DIV/0!	
0	1	0	GCCTTGTGAA	9179	#DIV/0!	0.0	#DIV/0!	
0	0	1	GCCTTTCCCA	9180	#DIV/0!	#DIV/0!	#DIV/0!	
0	0	1	GCCTTTGTGC	9181	#DIV/0!	#DIV/0!	#DIV/0!	
1	0	0	GCGAAATGGC	9182	0.0	#DIV/0!	0.0	

Table 5, cont.

0	0	1	GCGAAATTCC	9183	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	GCGAAATTTT	9184	0.0	#DIV/0!	0.0
1	0	0	GCGAACCACT	9185	0.0	#DIV/0!	0.0
0	0	1	GCGAAGACTG	9186	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	GCGAAGTAAA	9187	0.0	#DIV/0!	0.0
0	0	1	GCGAATAGGT	9188	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GCGAATTCCA	9189	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GCGACATAAT	9190	#DIV/0!	0.0	#DIV/0!
0	0	1	GCGACGGAAA	9191	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GCGACTATTC	9192	#DIV/0!	0.0	#DIV/0!
0	0	1	GCGAGAGGCC	9193	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	GCGAGCAGAT	9194	0.0	#DIV/0!	0.0
1	0	0	GCGAGGCAAT	9195	0.0	#DIV/0!	0.0
0	0	1	GCGAGTAGGC	9196	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GCGAGTTAGT	9197	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GCGATACCGG	9198	#DIV/0!	0.0	#DIV/0!
0	1	0	GCGATCCACG	9199	#DIV/0!	0.0	#DIV/0!
0	1	0	GCGATGGTTT	9200	#DIV/0!	0.0	#DIV/0!
0	1	0	GCGATTATTC	9201	#DIV/0!	0.0	#DIV/0!
1	0	0	GCGATTCTGT	9202	0.0	#DIV/0!	0.0
0	1	0	GCGATTGGCT	9203	#DIV/0!	0.0	#DIV/0!
0	1	0	GCGATTGTGT	9204	#DIV/0!	0.0	#DIV/0!
0	0	1	GCGCAAGTAC	9205	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	GCGCACCAAC	9206	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	GCGCACCACA	9207	#DIV/0!	0.0	#DIV/0!
0	0	1	GCGCACCAGA	9208	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	GCGCAGATAG	9209	0.0	#DIV/0!	0.0
1	0	0	GCGCAGTTGG	9210	0.0	#DIV/0!	0.0

Table 5, cont.

0	0	1	TAGCACTTCT	10611	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TAGCAGGCGG	10612	0.0	#DIV/0!	0.0
1	0	0	TAGCATTGCA	10613	0.0	#DIV/0!	0.0
0	1	0	TAGCATTTGC	10614	#DIV/0!	0.0	#DIV/0!
0	1	0	TAGCCAAGTT	10615	#DIV/0!	0.0	#DIV/0!
0	1	0	TAGCCCAACT	10616	#DIV/0!	0.0	#DIV/0!
0	1	0	TAGCCCCTCA	10617	#DIV/0!	0.0	#DIV/0!
0	1	0	TAGCCCTAAA	10618	#DIV/0!	0.0	#DIV/0!
1	0	0	TAGCCGGTCT	10619	0.0	#DIV/0!	0.0
0	0	1	TAGCGCAACT	10620	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TAGCTACAAC	10621	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TAGCTTCTCA	10622	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TAGGACAATA	10623	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TAGGACGCCA	10624	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TAGGAGAAAC	10625	0.0	#DIV/0!	0.0
1	0	0	TAGGAGTCTC	10626	0.0	#DIV/0!	0.0
0	1	0	TAGGCACCAG	10627	#DIV/0!	0.0	#DIV/0!
0	1	0	TAGGCCGCAA	10628	#DIV/0!	0.0	#DIV/0!
0	1	0	TAGGGAAAAT	10629	#DIV/0!	0.0	#DIV/0!
1	0	0	TAGGTGTGAC	10630	0.0	#DIV/0!	0.0
1	0	0	TAGGTGTTCC	10631	0.0	#DIV/0!	0.0
1	0	0	TAGTAAAGAA	10632	0.0	#DIV/0!	0.0
0	1	0	TAGTAAATGT	10633	#DIV/0!	0.0	#DIV/0!
0	1	0	TAGTAACAAG	10634	#DIV/0!	0.0	#DIV/0!
0	1	0	TAGTAATATA	10635	#DIV/0!	0.0	#DIV/0!
1	0	0	TAGTAATCTC	10636	0.0	#DIV/0!	0.0
1	0	0	TAGTACGAAA	10637	0.0	#DIV/0!	0.0
0	0	1	TAGTACTGTT	10638	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

0	0	1	TAGTAGGTGC	10639	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TAGTCAGGAA	10640	#DIV/0!	0.0	#DIV/0!
0	1	0	TAGTCGGAGT	10641	#DIV/0!	0.0	#DIV/0!
1	0	0	TAGTCTTTTG	10642	0.0	#DIV/0!	0.0
0	1	0	TAGTGAAGTC	10643	#DIV/0!	0.0	#DIV/0!
0	0	1	TAGTGAGTGG	10644	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TAGTGTAAGT	10645	0.0	#DIV/0!	0.0
0	0	1	TAGTGTAATA	10646	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TAGTTGACCG	10647	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TAGTTTAATT	10648	#DIV/0!	0.0	#DIV/0!
1	0	0	TAGTTTCTAA	10649	0.0	#DIV/0!	0.0
0	1	0	TAGTTTCTGT	10650	#DIV/0!	0.0	#DIV/0!
0	1	0	TAGTTTTGGA	10651	#DIV/0!	0.0	#DIV/0!
1	0	0	TATAAAAAAA	10652	0.0	#DIV/0!	0.0
1	0	0	TATAAAACAC	10653	0.0	#DIV/0!	0.0
0	1	0	TATAAAAGAA	10654	#DIV/0!	0.0	#DIV/0!
0	1	0	TATAAAGCAC	10655	#DIV/0!	0.0	#DIV/0!
0	0	1	TATAACGGGA	10656	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TATAACGTGT	10657	#DIV/0!	0.0	#DIV/0!
0	1	0	TATAACTTCA	10658	#DIV/0!	0.0	#DIV/0!
0	0	1	TATAAGACTA	10659	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TATAAGGCGT	10660	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TATAAGGTCC	10661	0.0	#DIV/0!	0.0
1	0	0	TATAAGTTTT	10662	0.0	#DIV/0!	0.0
1	0	0	TATAATAAAT	10663	0.0	#DIV/0!	0.0
0	1	0	TATAATAAGT	10664	#DIV/0!	0.0	#DIV/0!
0	0	1	TATAATTATA	10665	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TATACAAAAT	10666	0.0	#DIV/0!	0.0

Table 5, cont.

0	1	0	TATACAAGCT	10667	#DIV/0!	0.0	#DIV/0!
0	0	1	TATACCACCT	10668	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TATACCTTGG	10669	#DIV/0!	0.0	#DIV/0!
0	1	0	TATACGATAC	10670	#DIV/0!	0.0	#DIV/0!
1	0	0	TATACTAATG	10671	0.0	#DIV/0!	0.0
0	1	0	TATACTACGC	10672	#DIV/0!	0.0	#DIV/0!
0	0	1	TATACTGGTT	10673	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TATACTGTAT	10674	#DIV/0!	0.0	#DIV/0!
0	1	0	TATACTTAAC	10675	#DIV/0!	0.0	#DIV/0!
1	0	0	TATAGAATTG	10676	0.0	#DIV/0!	0.0
1	0	0	TATAGACCTT	10677	0.0	#DIV/0!	0.0
0	0	1	TATAGAGGAA	10678	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TATAGATTCA	10679	0.0	#DIV/0!	0.0
0	1	0	TATAGCATAA	10680	#DIV/0!	0.0	#DIV/0!
0	0	1	TATAGCTGTT	10681	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TATAGGTCAT	10682	0.0	#DIV/0!	0.0
0	1	0	TATATAACCT	10683	#DIV/0!	0.0	#DIV/0!
0	1	0	TATATAATAG	10684	#DIV/0!	0.0	#DIV/0!
0	1	0	TATATATAAA	10685	#DIV/0!	0.0	#DIV/0!
0	0	1	TATATATATG	10686	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TATATATGAT	10687	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TATATATGTG	10688	0.0	#DIV/0!	0.0
0	1	0	TATATCTATA	10689	#DIV/0!	0.0	#DIV/0!
0	1	0	TATATCTTTC	10690	#DIV/0!	0.0	#DIV/0!
1	0	0	TATATGTATG	10691	0.0	#DIV/0!	0.0
1	0	0	TATATGTTTA	10692	0.0	#DIV/0!	0.0
1	0	0	TATATTAATA	10693	0.0	#DIV/0!	0.0
1	0	0	TATATTACAC	10694	0.0	#DIV/0!	0.0

Table 5, cont.

1	0	0	TATATTAGTT	10695	0.0	#DIV/0!	0.0
1	0	0	TATATTATCA	10696	0.0	#DIV/0!	0.0
0	1	0	TATATTATTA	10697	#DIV/0!	0.0	#DIV/0!
0	0	1	TATATTATTG	10698	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TATATTCCCG	10699	0.0	#DIV/0!	0.0
0	0	1	TATATTCCTT	10700	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TATATTTCTT	10701	0.0	#DIV/0!	0.0
0	1	0	TATCAAAAAA	10702	#DIV/0!	0.0	#DIV/0!
0	1	0	TATCAAGTGG	10703	#DIV/0!	0.0	#DIV/0!
1	0	0	TATCAATTGT	10704	0.0	#DIV/0!	0.0
0	1	0	TATCACATTA	10705	#DIV/0!	0.0	#DIV/0!
1	0	0	TATCCAGTTT	10706	0.0	#DIV/0!	0.0
1	0	0	TATCCATATA	10707	0.0	#DIV/0!	0.0
1	0	0	TATCCATTGA	10708	0.0	#DIV/0!	0.0
0	0	1	TATCCTCTGG	10709	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TATCCTTCTC	10710	#DIV/0!	0.0	#DIV/0!
1	0	0	TATCGACTGC	10711	0.0	#DIV/0!	0.0
0	1	0	TATCGAGGGT	10712	#DIV/0!	0.0	#DIV/0!
1	0	0	TATCGGCCAC	10713	0.0	#DIV/0!	0.0
0	1	0	TATCTAAAAA	10714	#DIV/0!	0.0	#DIV/0!
0	1	0	TATCTACCAA	10715	#DIV/0!	0.0	#DIV/0!
1	0	0	TATCTATTTG	10716	0.0	#DIV/0!	0.0
0	1	0	TATCTCAGAT	10717	#DIV/0!	0.0	#DIV/0!
0	0	1	TATCTGAAAG	10718	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TATCTGGACC	10719	#DIV/0!	0.0	#DIV/0!
0	1	0	TATCTTCTAA	10720	#DIV/0!	0.0	#DIV/0!
0	1	0	TATCTTGCTG	10721	#DIV/0!	0.0	#DIV/0!
0	1	0	TATCTTTGCA	10722	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

1	0	0	TATCTTTTCT	10723	0.0	#DIV/0!	0.0
0	0	1	TATCTTTTTT	10724	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TATGAAAAAA	10725	0.0	#DIV/0!	0.0
0	0	1	TATGAAACTT	10726	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TATGAAATTA	10727	#DIV/0!	0.0	#DIV/0!
0	1	0	TATGAACGTA	10728	#DIV/0!	0.0	#DIV/0!
1	0	0	TATGAAGGGC	10729	0.0	#DIV/0!	0.0
1	0	0	TATGAATGCT	10730	0.0	#DIV/0!	0.0
0	1	0	TATGAATGTA	10731	#DIV/0!	0.0	#DIV/0!
0	1	0	TATGAATTAT	10732	#DIV/0!	0.0	#DIV/0!
1	0	0	TATGACCAGT	10733	0.0	#DIV/0!	0.0
0	0	1	TATGACCTTT	10734	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TATGACGTAT	10735	#DIV/0!	0.0	#DIV/0!
0	0	1	TATGAGAGTA	10736	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TATGAGGTCA	10737	#DIV/0!	0.0	#DIV/0!
0	0	1	TATGATGCAG	10738	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TATGATTCTA	10739	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TATGCACCTA	10740	#DIV/0!	0.0	#DIV/0!
1	0	0	TATGCATTTA	10741	0.0	#DIV/0!	0.0
0	1	0	TATGCCTGCT	10742	#DIV/0!	0.0	#DIV/0!
0	0	1	TATGCCTGGA	10743	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TATGCGGGCT	10744	0.0	#DIV/0!	0.0
0	0	1	TATGGAAATA	10745	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TATGGACCCC	10746	0.0	#DIV/0!	0.0
0	0	1	TATGGATCAA	10747	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TATGGATCTG	10748	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TATGGGCGGG	10749	#DIV/0!	0.0	#DIV/0!
1	0	0	TATGGTACCG	10750	0.0	#DIV/0!	0.0

Table 5, cont.

1	0	0	TATGTAATAA	10751	0.0	#DIV/0!	0.0
0	1	0	TATGTAATTA	10752	#DIV/0!	0.0	#DIV/0!
0	1	0	TATGTACGTA	10753	#DIV/0!	0.0	#DIV/0!
0	1	0	TATGTATACC	10754	#DIV/0!	0.0	#DIV/0!
0	1	0	TATGTATCAT	10755	#DIV/0!	0.0	#DIV/0!
1	0	0	TATGTATTCT	10756	0.0	#DIV/0!	0.0
1	0	0	TATGTATTTT	10757	0.0	#DIV/0!	0.0
0	1	0	TATGTCGAAA	10758	#DIV/0!	0.0	#DIV/0!
0	1	0	TATGTGATAA	10759	#DIV/0!	0.0	#DIV/0!
1	0	0	TATGTGGTAC	10760	0.0	#DIV/0!	0.0
0	1	0	TATGTGTAGA	10761	#DIV/0!	0.0	#DIV/0!
1	0	0	TATGTGTATA	10762	0.0	#DIV/0!	0.0
0	1	0	TATGTTAAAA	10763	#DIV/0!	0.0	#DIV/0!
0	1	0	TATGTTATGT	10764	#DIV/0!	0.0	#DIV/0!
0	0	1	TATTAAAGGA	10765	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TATTAAGATT	10766	#DIV/0!	0.0	#DIV/0!
1	0	0	TATTAGTATT	10767	0.0	#DIV/0!	0.0
0	1	0	TATTATTATC	10768	#DIV/0!	0.0	#DIV/0!
0	1	0	TATTCAATTG	10769	#DIV/0!	0.0	#DIV/0!
1	0	0	TATTCAGGGT	10770	0.0	#DIV/0!	0.0
0	0	1	TATTCCGAAA	10771	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TATTCGGAAG	10772	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TATTCGGGAT	10773	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TATTCTCCGC	10774	#DIV/0!	0.0	#DIV/0!
0	1	0	TATTCTGTTT	10775	#DIV/0!	0.0	#DIV/0!
0	0	1	TATTCTTATT	10776	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TATTGCAAAT	10777	0.0	#DIV/0!	0.0
0	0	1	TATTGCAACC	10778	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

1	0	0	TATTGGAACA	10779	0.0	#DIV/0!	0.0
0	0	1	TATTGGACTT	10780	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TATTGGCAAT	10781	0.0	#DIV/0!	0.0
0	1	0	TATTGGGAGA	10782	#DIV/0!	0.0	#DIV/0!
0	1	0	TATTGGTACT	10783	#DIV/0!	0.0	#DIV/0!
0	1	0	TATTGGTAGG	10784	#DIV/0!	0.0	#DIV/0!
1	0	0	TATTGTAGTT	10785	0.0	#DIV/0!	0.0
0	0	1	TATTGTGTGC	10786	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TATTTAAAAA	10787	0.0	#DIV/0!	0.0
0	1	0	TATTTACCTC	10788	#DIV/0!	0.0	#DIV/0!
0	1	0	TATTTATTAA	10789	#DIV/0!	0.0	#DIV/0!
0	1	0	TATTTCAATT	10790	#DIV/0!	0.0	#DIV/0!
0	1	0	TATTTCTTGG	10791	#DIV/0!	0.0	#DIV/0!
0	1	0	TATTTTCATA	10792	#DIV/0!	0.0	#DIV/0!
0	0	1	TATTTTCCCA	10793	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TATTTTTAAA	10794	0.0	#DIV/0!	0.0
0	1	0	TATTTTTGAA	10795	#DIV/0!	0.0	#DIV/0!
0	1	0	TATTTTTTAA	10796	#DIV/0!	0.0	#DIV/0!
0	1	0	TCAAAAATGG	10797	#DIV/0!	0.0	#DIV/0!
1	0	0	TCAAAAGCTG	10798	0.0	#DIV/0!	0.0
1	0	0	TCAAAATTGC	10799	0.0	#DIV/0!	0.0
1	0	0	TCAAACAAAA	10800	0.0	#DIV/0!	0.0
1	0	0	TCAAACCGCT	10801	0.0	#DIV/0!	0.0
0	0	1	TCAAAGCACT	10802	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TCAAAGCATT	10803	0.0	#DIV/0!	0.0
1	0	0	TCAAAGCCGT	10804	0.0	#DIV/0!	0.0
1	0	0	TCAAATAGAG	10805	0.0	#DIV/0!	0.0
0	1	0	TCAAATCCAA	10806	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	0	1	TCAAATCTTA	10807	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TCAAATTAAC	10808	#DIV/0!	0.0	#DIV/0!
0	0	1	TCAACAAAAG	10809	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TCAACATCAG	10810	0.0	#DIV/0!	0.0
0	0	1	TCAACATCCT	10811	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TCAACCGTGG	10812	0.0	#DIV/0!	0.0
0	0	1	TCAACTGGAT	10813	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TCAACTTACT	10814	0.0	#DIV/0!	0.0
1	0	0	TCAACTTTAA	10815	0.0	#DIV/0!	0.0
0	0	1	TCAAGAAAGT	10816	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TCAAGAACGG	10817	0.0	#DIV/0!	0.0
0	0	1	TCAAGAAGTA	10818	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TCAAGATTGT	10819	#DIV/0!	0.0	#DIV/0!
0	1	0	TCAAGCACCT	10820	#DIV/0!	0.0	#DIV/0!
0	1	0	TCAAGCCCTC	10821	#DIV/0!	0.0	#DIV/0!
0	1	0	TCAAGCTTGT	10822	#DIV/0!	0.0	#DIV/0!
1	0	0	TCAAGGAGTA	10823	0.0	#DIV/0!	0.0
1	0	0	TCAAGGCCGG	10824	0.0	#DIV/0!	0.0
1	0	0	TCAAGTAGCA	10825	0.0	#DIV/0!	0.0
0	1	0	TCAATAGAGG	10826	#DIV/0!	0.0	#DIV/0!
0	1	0	TCAATCAGTT	10827	#DIV/0!	0.0	#DIV/0!
0	1	0	TCAATCATAT	10828	#DIV/0!	0.0	#DIV/0!
0	1	0	TCAATCTTGC	10829	#DIV/0!	0.0	#DIV/0!
1	0	0	TCAATCTTTG	10830	0.0	#DIV/0!	0.0
0	0	1	TCAATGCACA	10831	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TCAATTAATG	10832	#DIV/0!	0.0	#DIV/0!
0	1	0	TCAATTCCTT	10833	#DIV/0!	0.0	#DIV/0!
1	0	0	TCAATTCGAA	10834	0.0	#DIV/0!	0.0

Table 5, cont.

0	0	1	TCAATTCTGT	10835	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TCACAACACC	10836	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TCACAATTTA	10837	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TCACCAGAGT	10838	#DIV/0!	0.0	#DIV/0!
0	1	0	TCACCCGTAC	10839	#DIV/0!	0.0	#DIV/0!
0	0	1	TCACCGCATC	10840	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TCACCGGGGC	10841	0.0	#DIV/0!	0.0
1	0	0	TCACCGTACA	10842	0.0	#DIV/0!	0.0
0	1	0	TCACCTTGCA	10843	#DIV/0!	0.0	#DIV/0!
1	0	0	TCACGATTTA	10844	0.0	#DIV/0!	0.0
0	1	0	TCACGGCCAA	10845	#DIV/0!	0.0	#DIV/0!
0	0	1	TCACGGGTAC	10846	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TCACTCGCCA	10847	0.0	#DIV/0!	0.0
0	1	0	TCACTCTGCT	10848	#DIV/0!	0.0	#DIV/0!
1	0	0	TCACTGACGC	10849	0.0	#DIV/0!	0.0
0	1	0	TCACTGGCCT	10850	#DIV/0!	0.0	#DIV/0!
1	0	0	TCACTTCATT	10851	0.0	#DIV/0!	0.0
0	1	0	TCACTTCCGC	10852	#DIV/0!	0.0	#DIV/0!
0	0	1	TCACTTGAGG	10853	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TCACTTGTTC	10854	#DIV/0!	0.0	#DIV/0!
0	1	0	TCACTTTGAA	10855	#DIV/0!	0.0	#DIV/0!
0	0	1	TCAGAAACGC	10856	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TCAGAAAGCA	10857	0.0	#DIV/0!	0.0
0	1	0	TCAGAAGAGT	10858	#DIV/0!	0.0	#DIV/0!
0	1	0	TCAGAAGTGG	10859	#DIV/0!	0.0	#DIV/0!
1	0	0	TCAGAATATA	10860	0.0	#DIV/0!	0.0
0	0	1	TCAGAATCTT	10861	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TCAGAGACAG	10862	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

0	1	0	TCAGAGATAA	10863	#DIV/0!	0.0	#DIV/0!	
0	0	1	TCAGAGGAAA	10864	#DIV/0!	#DIV/0!	#DIV/0!	
0	0	1	TCAGATATGA	10865	#DIV/0!	#DIV/0!	#DIV/0!	
1	0	0	TCAGATGTTG	10866	0.0	#DIV/0!	0.0	
1	0	0	TCAGATTGGA	10867	0.0	#DIV/0!	0.0	
0	1	0	TCAGATTTCT	10868	#DIV/0!	0.0	#DIV/0!	
0	1	0	TCAGCAAAAG	10869	#DIV/0!	0.0	#DIV/0!	
0	1	0	TCAGCAATAA	10870	#DIV/0!	0.0	#DIV/0!	
1	0	0	TCAGCCTGCA	10871	#DIV/0!	0.0	#DIV/0!	
0	1	0	TCAGCGTATG	10872	0.0	#DIV/0!	0.0	
0	0	1	TCAGGATCGA	10873	#DIV/0!	0.0	#DIV/0!	
0	0	1	TCAGGGACTC	10874	#DIV/0!	#DIV/0!	#DIV/0!	
1	0	0	TCAGGTGCTG	10875	#DIV/0!	#DIV/0!	#DIV/0!	
0	1	0	TCAGTAACCC	10876	0.0	#DIV/0!	0.0	
0	0	1	TCAGTAAGCC	10877	#DIV/0!	0.0	#DIV/0!	
0	0	1	TCAGTAGAAC	10878	#DIV/0!	#DIV/0!	#DIV/0!	
0	1	0	TCAGTATTCC	10879	#DIV/0!	#DIV/0!	#DIV/0!	
0	1	0	TCAGTCGCAA	10880	#DIV/0!	0.0	#DIV/0!	
0	0	1	TCAGTGTATC	10881	#DIV/0!	#DIV/0!	#DIV/0!	
1	0	0	TCATAACTGA	10882	0.0	#DIV/0!	0.0	
1	0	0	TCATAATCTT	10883	0.0	#DIV/0!	0.0	
0	1	0	TCATAGAATT	10884	#DIV/0!	0.0	#DIV/0!	
0	0	1	TCATAGCACT	10885	#DIV/0!	#DIV/0!	#DIV/0!	
0	1	0	TCATCAAAAA	10886	#DIV/0!	0.0	#DIV/0!	
0	0	1	TCATCAATGA	10887	#DIV/0!	#DIV/0!	#DIV/0!	
0	0	1	TCATCACCGA	10888	#DIV/0!	#DIV/0!	#DIV/0!	
0	1	0	TCATCACCTA	10889	#DIV/0!	0.0	#DIV/0!	
1	0	0	TCATCCAGAT	10890	0.0	#DIV/0!	0.0	

Table 5, cont.

0	0	1	TCATCGAAAA	10891	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TCATCGGAAG	10892	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TCATCGTAGT	10893	0.0	#DIV/0!	0.0
1	0	0	TCATCGTATG	10894	0.0	#DIV/0!	0.0
0	1	0	TCATCGTCAG	10895	#DIV/0!	0.0	#DIV/0!
0	1	0	TCATCGTCAT	10896	#DIV/0!	0.0	#DIV/0!
0	0	1	TCATCTACAT	10897	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TCATCTGTGA	10898	0.0	#DIV/0!	0.0
1	0	0	TCATCTGTTT	10899	0.0	#DIV/0!	0.0
0	1	0	TCATCTTACA	10900	#DIV/0!	0.0	#DIV/0!
1	0	0	TCATCTTCTT	10901	0.0	#DIV/0!	0.0
0	0	1	TCATCTTTAC	10902	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TCATTAAACA	10903	#DIV/0!	0.0	#DIV/0!
1	0	0	TCATTCAAAA	10904	0.0	#DIV/0!	0.0
1	0	0	TCATTCAACG	10905	0.0	#DIV/0!	0.0
1	0	0	TCATTCAGTA	10906	0.0	#DIV/0!	0.0
1	0	0	TCATTGAGAA	10907	0.0	#DIV/0!	0.0
0	0	1	TCATTTCGAA	10908	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TCATTTTATA	10909	#DIV/0!	0.0	#DIV/0!
0	1	0	TCCAAAAAAA	10910	#DIV/0!	0.0	#DIV/0!
0	0	1	TCCAAAAGGC	10911	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TCCAAAGGCA	10912	0.0	#DIV/0!	0.0
0	1	0	TCCAAAGGCC	10913	#DIV/0!	0.0	#DIV/0!
0	1	0	TCCAAAGTGC	10914	#DIV/0!	0.0	#DIV/0!
0	0	1	TCCAACTACC	10915	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TCCAAGCAAT	10916	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TCCAAGCATT	10917	0.0	#DIV/0!	0.0
1	0	0	TCCAAGGAGG	10918	0.0	#DIV/0!	0.0

Table 5, cont.

1	0	0	TCCAAGTACG	10919	0.0	#DIV/0!	0.0
1	0	0	TCCAAGTCCG	10920	0.0	#DIV/0!	0.0
0	0	1	TCCAATTGTC	10921	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TCCAATTTAT	10922	0.0	#DIV/0!	0.0
0	0	1	TCCACAATAT	10923	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TCCACAATTT	10924	#DIV/0!	0.0	#DIV/0!
0	1	0	TCCACATTTT	10925	#DIV/0!	0.0	#DIV/0!
1	0	0	TCCACCAAGC	10926	0.0	#DIV/0!	0.0
0	0	1	TCCACGGTTC	10927	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TCCACTAATC	10928	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TCCACTAGTC	10929	0.0	#DIV/0!	0.0
0	1	0	TCCACTTGAG	10930	#DIV/0!	0.0	#DIV/0!
0	1	0	TCCAGATCCA	10931	#DIV/0!	0.0	#DIV/0!
0	1	0	TCCAGCCAAT	10932	#DIV/0!	0.0	#DIV/0!
0	1	0	TCCAGCTGGA	10933	#DIV/0!	0.0	#DIV/0!
1	0	0	TCCAGGGACT	10934	0.0	#DIV/0!	0.0
1	0	0	TCCAGTGAAA	10935	0.0	#DIV/0!	0.0
1	0	0	TCCATAACCT	10936	0.0	#DIV/0!	0.0
0	1	0	TCCATAGGCG	10937	#DIV/0!	0.0	#DIV/0!
0	0	1	TCCATATTAA	10938	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TCCATCTTGC	10939	#DIV/0!	0.0	#DIV/0!
0	1	0	TCCATCTTGT	10940	#DIV/0!	0.0	#DIV/0!
1	0	0	TCCATTAATA	10941	0.0	#DIV/0!	0.0
0	1	0	TCCATTACCA	10942	#DIV/0!	0.0	#DIV/0!
0	0	1	TCCCACTCCT	10943	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TCCCAGTTCG	10944	#DIV/0!	0.0	#DIV/0!
1	0	0	TCCCCAATTA	10945	0.0	#DIV/0!	0.0
0	1	0	TCCCCAGAAG	10946	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	1	0	TCCCCAGAGG	10947	#DIV/0!	0.0	#DIV/0!
0	1	0	TCCCCCGTAA	10948	#DIV/0!	0.0	#DIV/0!
1	0	0	TCCCCCTACA	10949	0.0	#DIV/0!	0.0
0	1	0	TCCCCGATAC	10950	#DIV/0!	0.0	#DIV/0!
0	1	0	TCCCCGATCG	10951	#DIV/0!	0.0	#DIV/0!
0	0	1	TCCCCGATGG	10952	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TCCCCGGACA	10953	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TCCCCGTAAC	10954	0.0	#DIV/0!	0.0
1	0	0	TCCCCGTAAG	10955	0.0	#DIV/0!	0.0
0	1	0	TCCCCGTAGT	10956	#DIV/0!	0.0	#DIV/0!
1	0	0	TCCCCGTCAC	10957	0.0	#DIV/0!	0.0
0	0	1	TCCCCGTCGT	10958	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TCCCCGTGAA	10959	0.0	#DIV/0!	0.0
1	0	0	TCCCCGTGCA	10960	0.0	#DIV/0!	0.0
0	1	0	TCCCCGTTAC	10961	#DIV/0!	0.0	#DIV/0!
0	1	0	TCCCCGTTAG	10962	#DIV/0!	0.0	#DIV/0!
0	1	0	TCCCCGTTCA	10963	#DIV/0!	0.0	#DIV/0!
0	1	0	TCCCCGTTTT	10964	#DIV/0!	0.0	#DIV/0!
1	0	0	TCCCCTAGAA	10965	0.0	#DIV/0!	0.0
0	0	1	TCCCCTGGCT	10966	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TCCCGAACAT	10967	#DIV/0!	0.0	#DIV/0!
0	0	1	TCCCGGACAG	10968	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TCCCGTAAAA	10969	0.0	#DIV/0!	0.0
0	1	0	TCCCGTACAC	10970	#DIV/0!	0.0	#DIV/0!
0	1	0	TCCCGTATCG	10971	#DIV/0!	0.0	#DIV/0!
1	0	0	TCCCTAGCCT	10972	0.0	#DIV/0!	0.0
0	1	0	TCCCTAGTAA	10973	#DIV/0!	0.0	#DIV/0!
0	0	1	TCCCTATAAA	10974	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

0	1	0	TCCCTATGAG	10975	#DIV/0!	0.0	#DIV/0!
0	1	0	TCCCTATTAC	10976	#DIV/0!	0.0	#DIV/0!
0	1	0	TCCCTATTCA	10977	#DIV/0!	0.0	#DIV/0!
0	1	0	TCCCTCCTTG	10978	#DIV/0!	0.0	#DIV/0!
0	0	1	TCCCTCTTTG	10979	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TCCCTGAATT	10980	0.0	#DIV/0!	0.0
1	0	0	TCCCTGTGGT	10981	0.0	#DIV/0!	0.0
0	0	1	TCCCTTTAGG	10982	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TCCGAAAACG	10983	0.0	#DIV/0!	0.0
0	0	1	TCCGAATAGC	10984	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TCCGAATCCG	10985	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TCCGAGCTGG	10986	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TCCGAGGTCC	10987	0.0	#DIV/0!	0.0
0	1	0	TCCGAGTTCG	10988	#DIV/0!	0.0	#DIV/0!
0	1	0	TCCGCAGAAG	10989	#DIV/0!	0.0	#DIV/0!
0	0	1	TCCGCCAGAA	10990	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TCCGCGTAGA	10991	0.0	#DIV/0!	0.0
1	0	0	TCCGCTCAAA	10992	0.0	#DIV/0!	0.0
1	0	0	TCCGCTGTCT	10993	0.0	#DIV/0!	0.0
1	0	0	TCCGCTTGGG	10994	0.0	#DIV/0!	0.0
0	0	1	TCCGGATCTG	10995	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TCCGGGTCCG	10996	#DIV/0!	0.0	#DIV/0!
1	0	0	TCCGTACAGC	10997	0.0	#DIV/0!	0.0
1	0	0	TCCGTATTAA	10998	0.0	#DIV/0!	0.0
0	0	1	TCCGTCACTT	10999	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TCCGTGGGGA	11000	#DIV/0!	0.0	#DIV/0!
0	1	0	TCCTACATCG	11001	#DIV/0!	0.0	#DIV/0!
0	1	0	TCCTACGATG	11002	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	0	1	TCCTACTGGT	11003	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TCCTAGCTCG	11004	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TCCTAGGCTG	11005	0.0	#DIV/0!	0.0
0	0	1	TCCTCAGTCT	11006	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TCCTCCATAG	11007	#DIV/0!	0.0	#DIV/0!
1	0	0	TCCTCCCACC	11008	0.0	#DIV/0!	0.0
0	1	0	TCCTCGACAT	11009	#DIV/0!	0.0	#DIV/0!
1	0	0	TCCTCGTGGG	11010	0.0	#DIV/0!	0.0
0	1	0	TCCTCTCCAG	11011	#DIV/0!	0.0	#DIV/0!
1	0	0	TCCTGCAATG	11012	0.0	#DIV/0!	0.0
0	0	1	TCCTGGTATA	11013	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TCCTGTCTCC	11014	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TCCTGTCTTG	11015	0.0	#DIV/0!	0.0
1	0	0	TCCTTACCCA	11016	0.0	#DIV/0!	0.0
1	0	0	TCCTTCAACT	11017	0.0	#DIV/0!	0.0
0	1	0	TCCTTCAGTT	11018	#DIV/0!	0.0	#DIV/0!
0	0	1	TCCTTCTAGC	11019	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TCCTTCTGGG	11020	#DIV/0!	0.0	#DIV/0!
1	0	0	TCCTTGACCG	11021	0.0	#DIV/0!	0.0
1	0	0	TCCTTGAGAA	11022	0.0	#DIV/0!	0.0
0	1	0	TCCTTGCTAA	11023	#DIV/0!	0.0	#DIV/0!
1	0	0	TCCTTGTATT	11024	0.0	#DIV/0!	0.0
0	1	0	TCCTTTCAAA	11025	#DIV/0!	0.0	#DIV/0!
0	1	0	TCCTTTTCGA	11026	#DIV/0!	0.0	#DIV/0!
0	1	0	TCCTTTTGGA	11027	#DIV/0!	0.0	#DIV/0!
0	1	0	TCGAAAAAAA	11028	#DIV/0!	0.0	#DIV/0!
1	0	0	TCGAAACGTA	11029	0.0	#DIV/0!	0.0
0	0	1	TCGAAAGAAG	11030	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

1	0	0	TCGAAAGCTA	11031	0.0	#DIV/0!	0.0
0	0	1	TCGAACTACC	11032	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TCGACGGGGC	11033	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TCGACGTGGT	11034	0.0	#DIV/0!	0.0
1	0	0	TCGACGTTGC	11035	0.0	#DIV/0!	0.0
0	1	0	TCGACTACAT	11036	#DIV/0!	0.0	#DIV/0!
0	0	1	TCGAGGTGTG	11037	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TCGATACCGG	11038	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TCGATATCTC	11039	#DIV/0!	0.0	#DIV/0!
0	1	0	TCGATCATCT	11040	#DIV/0!	0.0	#DIV/0!
0	0	1	TCGATGAATT	11041	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TCGATTAAGA	11042	#DIV/0!	0.0	#DIV/0!
1	0	0	TCGCAACAAT	11043	0.0	#DIV/0!	0.0
1	0	0	TCGCAATGTG	11044	0.0	#DIV/0!	0.0
0	1	0	TCGCAGGTAA	11045	#DIV/0!	0.0	#DIV/0!
0	1	0	TCGCATTTGT	11046	#DIV/0!	0.0	#DIV/0!
0	1	0	TCGCCATTAA	11047	#DIV/0!	0.0	#DIV/0!
0	1	0	TCGCCCTTTG	11048	#DIV/0!	0.0	#DIV/0!
0	0	1	TCGCCGCTCA	11049	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TCGCCGTACA	11050	#DIV/0!	0.0	#DIV/0!
0	1	0	TCGCCTGTTT	11051	#DIV/0!	0.0	#DIV/0!
0	0	1	TCGCCTTTAA	11052	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TCGCCTTTTT	11053	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TCGCGATGAG	11054	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TCGCGTGAAA	11055	#DIV/0!	0.0	#DIV/0!
0	0	1	TCGCTCATTT	11056	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TCGCTGCCGA	11057	#DIV/0!	0.0	#DIV/0!
0	1	0	TCGCTGGGCA	11058	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	1	0	TCGCTGTTTC	11059	#DIV/0!	0.0	#DIV/0!
0	1	0	TCGCTTAAAT	11060	#DIV/0!	0.0	#DIV/0!
0	0	1	TCGCTTCATC	11061	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TCGGAAACAA	11062	0.0	#DIV/0!	0.0
0	0	1	TCGGACAGAA	11063	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TCGGAGATGG	11064	#DIV/0!	0.0	#DIV/0!
0	1	0	TCGGATCCTA	11065	#DIV/0!	0.0	#DIV/0!
1	0	0	TCGGCATTAA	11066	0.0	#DIV/0!	0.0
0	1	0	TCGGCGAATG	11067	#DIV/0!	0.0	#DIV/0!
0	1	0	TCGGCGAGAG	11068	#DIV/0!	0.0	#DIV/0!
1	0	0	TCGGCGCTCT	11069	0.0	#DIV/0!	0.0
0	0	1	TCGGCGTGGC	11070	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TCGGGAAAAT	11071	#DIV/0!	0.0	#DIV/0!
0	1	0	TCGGGCATTG	11072	#DIV/0!	0.0	#DIV/0!
0	0	1	TCGGGCTAGT	11073	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TCGGGGACGG	11074	0.0	#DIV/0!	0.0
0	0	1	TCGGGGTACC	11075	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TCGGTAATAA	11076	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TCGTACGTCA	11077	#DIV/0!	0.0	#DIV/0!
0	0	1	TCGTACTGGT	11078	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TCGTACTGTT	11079	#DIV/0!	0.0	#DIV/0!
0	1	0	TCGTAGAAAA	11080	#DIV/0!	0.0	#DIV/0!
0	0	1	TCGTAGTAAA	11081	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TCGTCAACAA	11082	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TCGTCCGTTT	11083	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TCGTCTATTT	11084	0.0	#DIV/0!	0.0
0	1	0	TCGTCTTTTC	11085	#DIV/0!	0.0	#DIV/0!
0	0	1	TCGTGAATGA	11086	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

1	0	0	TCGTGCTGTG	11087	0.0	#DIV/0!	0.0
0	1	0	TCGTGGTGGA	11088	#DIV/0!	0.0	#DIV/0!
0	1	0	TCGTGTGGTA	11089	#DIV/0!	0.0	#DIV/0!
0	1	0	TCGTGTTAAA	11090	#DIV/0!	0.0	#DIV/0!
1	0	0	TCGTTAGAAG	11091	0.0	#DIV/0!	0.0
1	0	0	TCGTTCAACT	11092	0.0	#DIV/0!	0.0
1	0	0	TCGTTCATCT	11093	0.0	#DIV/0!	0.0
1	0	0	TCGTTGGAGC	11094	0.0	#DIV/0!	0.0
0	0	1	TCGTTTACTG	11095	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TCGTTTTGCC	11096	0.0	#DIV/0!	0.0
0	0	1	TCTAAGAAAA	11097	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TCTAAGAAGT	11098	0.0	#DIV/0!	0.0
0	1	0	TCTAAGACCG	11099	#DIV/0!	0.0	#DIV/0!
0	0	1	TCTAAGATGG	11100	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TCTAAGTATA	11101	0.0	#DIV/0!	0.0
1	0	0	TCTAAGTCCC	11102	0.0	#DIV/0!	0.0
0	1	0	TCTAAGTCTG	11103	#DIV/0!	0.0	#DIV/0!
1	0	0	TCTAATTACC	11104	0.0	#DIV/0!	0.0
1	0	0	TCTACAACTT	11105	0.0	#DIV/0!	0.0
0	1	0	TCTACCGATA	11106	#DIV/0!	0.0	#DIV/0!
1	0	0	TCTACCTCGA	11107	0.0	#DIV/0!	0.0
0	1	0	TCTACTAAAT	11108	#DIV/0!	0.0	#DIV/0!
1	0	0	TCTACTTTAC	11109	0.0	#DIV/0!	0.0
0	0	1	TCTAGAAGTT	11110	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TCTAGCGCCA	11111	#DIV/0!	0.0	#DIV/0!
0	1	0	TCTAGCGTAC	11112	#DIV/0!	0.0	#DIV/0!
0	1	0	TCTAGCTCTC	11113	#DIV/0!	0.0	#DIV/0!
1	0	0	TCTAGGAAGT	11114	0.0	#DIV/0!	0.0

Table 5, cont.

0	1	0	TCTAGGGATT	11115	#DIV/0!	0.0	#DIV/0!
0	1	0	TCTAGGGTCC	11116	#DIV/0!	0.0	#DIV/0!
1	0	0	TCTAGTTTAA	11117	0.0	#DIV/0!	0.0
1	0	0	TCTATATGGT	11118	0.0	#DIV/0!	0.0
1	0	0	TCTATGAAAT	11119	0.0	#DIV/0!	0.0
0	1	0	TCTATGTCTA	11120	#DIV/0!	0.0	#DIV/0!
0	0	1	TCTATGTGGT	11121	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TCTATGTGTG	11122	#DIV/0!	0.0	#DIV/0!
1	0	0	TCTCAACTGG	11123	0.0	#DIV/0!	0.0
0	1	0	TCTCAAGCTG	11124	#DIV/0!	0.0	#DIV/0!
0	1	0	TCTCAAGGTA	11125	#DIV/0!	0.0	#DIV/0!
0	0	1	TCTCAGTAAT	11126	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TCTCCACCTA	11127	0.0	#DIV/0!	0.0
0	0	1	TCTCCACTGG	11128	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TCTCCAGAGA	11129	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TCTCCAGGAA	11130	#DIV/0!	0.0	#DIV/0!
0	0	1	TCTCCATAAC	11131	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TCTCCCAGAG	11132	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TCTCCCGAAG	11133	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TCTCCGCGGA	11134	0.0	#DIV/0!	0.0
1	0	0	TCTCCTATAA	11135	0.0	#DIV/0!	0.0
1	0	0	TCTCCTCGTT	11136	0.0	#DIV/0!	0.0
0	1	0	TCTCGTACAT	11137	#DIV/0!	0.0	#DIV/0!
1	0	0	TCTCTAAAGG	11138	0.0	#DIV/0!	0.0
1	0	0	TCTCTACAGG	11139	0.0	#DIV/0!	0.0
1	0	0	TCTCTACGGG	11140	0.0	#DIV/0!	0.0
1	0	0	TCTCTACTTT	11141	0.0	#DIV/0!	0.0
0	1	0	TCTCTATAAA	11142	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	0	1	TCTCTATTAA	11143	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TCTCTCCTCA	11144	0.0	#DIV/0!	0.0
0	1	0	TCTCTCTTGG	11145	#DIV/0!	0.0	#DIV/0!
0	0	1	TCTCTGACGA	11146	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TCTCTGCCAG	11147	0.0	#DIV/0!	0.0
0	1	0	TCTCTGCTGG	11148	#DIV/0!	0.0	#DIV/0!
0	0	1	TCTCTTTGCC	11149	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TCTGAAAAAA	11150	#DIV/0!	0.0	#DIV/0!
0	0	1	TCTGAAATTG	11151	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TCTGAAGACC	11152	#DIV/0!	0.0	#DIV/0!
1	0	0	TCTGACGTGC	11153	0.0	#DIV/0!	0.0
0	1	0	TCTGACTGGG	11154	#DIV/0!	0.0	#DIV/0!
0	1	0	TCTGACTTCC	11155	#DIV/0!	0.0	#DIV/0!
0	1	0	TCTGAGATGG	11156	#DIV/0!	0.0	#DIV/0!
0	0	1	TCTGATCTTG	11157	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TCTGCAAATA	11158	#DIV/0!	0.0	#DIV/0!
1	0	0	TCTGCGTGAA	11159	0.0	#DIV/0!	0.0
0	1	0	TCTGCTGCTG	11160	#DIV/0!	0.0	#DIV/0!
1	0	0	TCTGGATCTC	11161	0.0	#DIV/0!	0.0
0	1	0	TCTGGCTGGC	11162	#DIV/0!	0.0	#DIV/0!
1	0	0	TCTGGGGAAA	11163	0.0	#DIV/0!	0.0
0	0	1	TCTGGTGTGA	11164	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TCTGTCGAAC	11165	#DIV/0!	0.0	#DIV/0!
0	0	1	TCTGTCGAGA	11166	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TCTGTGACCA	11167	#DIV/0!	0.0	#DIV/0!
0	0	1	TCTGTGTCCA	11168	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TCTGTTGACA	11169	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TCTGTTGGGG	11170	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

0	0	1	TCTGTTGTCA	11171	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TCTGTTTGGC	11172	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TCTTAAGAAT	11173	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TCTTACATAT	11174	#DIV/0!	0.0	#DIV/0!
1	0	0	TCTTACCACA	11175	0.0	#DIV/0!	0.0
0	0	1	TCTTACCCAT	11176	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TCTTATCATT	11177	#DIV/0!	0.0	#DIV/0!
1	0	0	TCTTATTATC	11178	0.0	#DIV/0!	0.0
1	0	0	TCTTCAAAGA	11179	0.0	#DIV/0!	0.0
0	0	1	TCTTCAACTT	11180	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TCTTCATTAC	11181	0.0	#DIV/0!	0.0
0	0	1	TCTTCCAAAA	11182	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TCTTCCCACT	11183	0.0	#DIV/0!	0.0
1	0	0	TCTTCGACAA	11184	0.0	#DIV/0!	0.0
1	0	0	TCTTCTCGTC	11185	0.0	#DIV/0!	0.0
1	0	0	TCTTCTTCAG	11186	0.0	#DIV/0!	0.0
0	1	0	TCTTCTTCTT	11187	#DIV/0!	0.0	#DIV/0!
0	1	0	TCTTGAAAAA	11188	#DIV/0!	0.0	#DIV/0!
1	0	0	TCTTGAACTG	11189	0.0	#DIV/0!	0.0
0	1	0	TCTTGACCGT	11190	#DIV/0!	0.0	#DIV/0!
0	1	0	TCTTGAGAAA	11191	#DIV/0!	0.0	#DIV/0!
0	1	0	TCTTGAGAAC	11192	#DIV/0!	0.0	#DIV/0!
1	0	0	TCTTGAGGAT	11193	0.0	#DIV/0!	0.0
0	0	1	TCTTGGGAAT	11194	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TCTTGTAGAA	11195	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TCTTGTAGGA	11196	#DIV/0!	0.0	#DIV/0!
0	1	0	TCTTGTGAAA	11197	#DIV/0!	0.0	#DIV/0!
0	1	0	TCTTGTGGTT	11198	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	1	0	TCTTTAATGG	11199	#DIV/0!	0.0	#DIV/0!
0	0	1	TCTTTACCAG	11200	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TCTTTATGTA	11201	#DIV/0!	0.0	#DIV/0!
1	0	0	TCTTTATTTA	11202	0.0	#DIV/0!	0.0
0	0	1	TCTTTCCTGA	11203	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TCTTTGTCTA	11204	0.0	#DIV/0!	0.0
0	0	1	TCTTTTGTGT	11205	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TCTTTTTATA	11206	0.0	#DIV/0!	0.0
1	0	0	TCTTTTTCAC	11207	0.0	#DIV/0!	0.0
0	1	0	TCTTTTTGTA	11208	#DIV/0!	0.0	#DIV/0!
0	0	1	TGAAAACTTT	11209	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TGAAAAGAAG	11210	#DIV/0!	0.0	#DIV/0!
0	1	0	TGAAAATGTA	11211	#DIV/0!	0.0	#DIV/0!
0	1	0	TGAAACGGTG	11212	#DIV/0!	0.0	#DIV/0!
1	0	0	TGAAATTATG	11213	0.0	#DIV/0!	0.0
0	0	1	TGAACAACAT	11214	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TGAACAATGT	11215	0.0	#DIV/0!	0.0
0	1	0	TGAACAGCGG	11216	#DIV/0!	0.0	#DIV/0!
0	1	0	TGAACTCTAA	11217	#DIV/0!	0.0	#DIV/0!
0	0	1	TGAACTTTTC	11218	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TGAAGGAACA	11219	#DIV/0!	0.0	#DIV/0!
0	0	1	TGAAGGTGAT	11220	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TGAATCAAAA	11221	0.0	#DIV/0!	0.0
0	0	1	TGAATGCCTG	11222	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TGAATTAGTG	11223	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TGAATTGACT	11224	#DIV/0!	0.0	#DIV/0!
0	1	0	TGAATTTCAT	11225	#DIV/0!	0.0	#DIV/0!
0	1	0	TGAATTTTCC	11226	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	0	1	TGACAAAACT	11227	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TGACAAACTG	11228	0.0	#DIV/0!	0.0
0	0	1	TGACAACTAT	11229	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TGACAACTGT	11230	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TGACAAGAAT	11231	0.0	#DIV/0!	0.0
0	0	1	TGACAAGCCT	11232	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TGACACATTC	11233	#DIV/0!	0.0	#DIV/0!
0	0	1	TGACAGGAAA	11234	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TGACATAAGT	11235	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TGACCAAACA	11236	#DIV/0!	0.0	#DIV/0!
0	0	1	TGACGGCTGA	11237	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TGACGGTTTG	11238	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TGACTCGTTG	11239	0.0	#DIV/0!	0.0
0	0	1	TGACTCTTGG	11240	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TGACTGGTAT	11241	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TGAGATCCGA	11242	#DIV/0!	0.0	#DIV/0!
1	0	0	TGAGATCGGG	11243	0.0	#DIV/0!	0.0
1	0	0	TGAGCACAAT	11244	0.0	#DIV/0!	0.0
0	1	0	TGAGCATATC	11245	#DIV/0!	0.0	#DIV/0!
0	0	1	TGAGCCTTCG	11246	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TGAGCGTTGA	11247	#DIV/0!	0.0	#DIV/0!
1	0	0	TGAGCTTAGA	11248	0.0	#DIV/0!	0.0
0	0	1	TGAGGGTGTA	11249	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TGAGGTAAGT	11250	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TGAGGTGATA	11251	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TGAGTAGGAG	11252	#DIV/0!	0.0	#DIV/0!
0	1	0	TGAGTATATA	11253	#DIV/0!	0.0	#DIV/0!
1	0	0	TGAGTGGTCA	11254	0.0	#DIV/0!	0.0

Table 5, cont.

0	0	1	TGAGTGTCTA	11255	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TGAGTTAGAG	11256	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TGATAATGAT	11257	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TGATAATGTC	11258	0.0	#DIV/0!	0.0
1	0	0	TGATACCAAG	11259	0.0	#DIV/0!	0.0
1	0	0	TGATAGCAGT	11260	0.0	#DIV/0!	0.0
0	1	0	TGATATCAGA	11261	#DIV/0!	0.0	#DIV/0!
0	0	1	TGATATCAGT	11262	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TGATATGTAA	11263	0.0	#DIV/0!	0.0
1	0	0	TGATCAAAAA	11264	0.0	#DIV/0!	0.0
0	1	0	TGATCAAGCG	11265	#DIV/0!	0.0	#DIV/0!
1	0	0	TGATCGGTTG	11266	0.0	#DIV/0!	0.0
0	0	1	TGATCGTTTG	11267	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TGATCTGCAC	11268	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TGATCTTAAG	11269	#DIV/0!	0.0	#DIV/0!
0	1	0	TGATCTTCCT	11270	#DIV/0!	0.0	#DIV/0!
0	0	1	TGATGACTCT	11271	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TGATGGTCGG	11272	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TGATTATACA	11273	0.0	#DIV/0!	0.0
1	0	0	TGATTATACC	11274	0.0	#DIV/0!	0.0
0	0	1	TGATTATCCC	11275	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TGATTATTAG	11276	0.0	#DIV/0!	0.0
0	1	0	TGATTCCCCA	11277	#DIV/0!	0.0	#DIV/0!
0	1	0	TGATTCTCTC	11278	#DIV/0!	0.0	#DIV/0!
0	1	0	TGATTCTGTT	11279	#DIV/0!	0.0	#DIV/0!
0	1	0	TGATTGCCGT	11280	#DIV/0!	0.0	#DIV/0!
0	1	0	TGATTTGTTG	11281	#DIV/0!	0.0	#DIV/0!
1	0	0	TGCAAATAAA	11282	0.0	#DIV/0!	0.0

Table 5, cont.

0	1	0	TGCAAGAACA	11283	#DIV/0!	0.0	#DIV/0!
0	1	0	TGCAATTTGC	11284	#DIV/0!	0.0	#DIV/0!
1	0	0	TGCACAGAAC	11285	0.0	#DIV/0!	0.0
0	1	0	TGCACCTCTT	11286	#DIV/0!	0.0	#DIV/0!
0	0	1	TGCACTAGTA	11287	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TGCAGAAGAG	11288	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TGCAGAGAAC	11289	0.0	#DIV/0!	0.0
0	0	1	TGCAGCGGCT	11290	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TGCAGTCAAA	11291	0.0	#DIV/0!	0.0
1	0	0	TGCAGTTTAG	11292	0.0	#DIV/0!	0.0
1	0	0	TGCATATCCG	11293	0.0	#DIV/0!	0.0
0	0	1	TGCATCACCA	11294	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TGCATCTTTA	11295	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TGCATTATTG	11296	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TGCATTGATA	11297	#DIV/0!	0.0	#DIV/0!
0	0	1	TGCCAACAAA	11298	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TGCCAAGGAT	11299	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TGCCACGAAC	11300	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TGCCACTATT	11301	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TGCCAGCAGA	11302	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TGCCATCTAT	11303	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TGCCATTTTA	11304	#DIV/0!	0.0	#DIV/0!
0	1	0	TGCCCGTACA	11305	#DIV/0!	0.0	#DIV/0!
0	0	1	TGCCCTGTGG	11306	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TGCCCTTGAT	11307	#DIV/0!	0.0	#DIV/0!
1	0	0	TGCCGACTAC	11308	0.0	#DIV/0!	0.0
0	1	0	TGCCGCCTTC	11309	#DIV/0!	0.0	#DIV/0!
1	0	0	TGCCGTCCAT	11310	0.0	#DIV/0!	0.0

Table 5, cont.

0	1	0	TGCCGTGGTG	11311	#DIV/0!	0.0	#DIV/0!
1	0	0	TGCCTATGCT	11312	0.0	#DIV/0!	0.0
0	0	1	TGCCTATTAA	11313	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TGCCTCAGCG	11314	#DIV/0!	0.0	#DIV/0!
0	1	0	TGCCTCTGGG	11315	#DIV/0!	0.0	#DIV/0!
1	0	0	TGCCTGGACT	11316	0.0	#DIV/0!	0.0
1	0	0	TGCCTGGTAC	11317	0.0	#DIV/0!	0.0
0	0	1	TGCCTTATGT	11318	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TGCCTTCGTC	11319	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TGCCTTGTGG	11320	0.0	#DIV/0!	0.0
0	0	1	TGCCTTTGTG	11321	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TGCCTTTTCA	11322	0.0	#DIV/0!	0.0
1	0	0	TGCGACTCAA	11323	0.0	#DIV/0!	0.0
0	1	0	TGCGAGATAC	11324	#DIV/0!	0.0	#DIV/0!
0	0	1	TGCGCAAACT	11325	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TGCGCAGCAG	11326	0.0	#DIV/0!	0.0
0	1	0	TGCGCTTTCT	11327	#DIV/0!	0.0	#DIV/0!
1	0	0	TGCGGACCTT	11328	0.0	#DIV/0!	0.0
0	1	0	TGCGGGTCAC	11329	#DIV/0!	0.0	#DIV/0!
0	0	1	TGCGTCCAGC	11330	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TGCGTGCAAT	11331	0.0	#DIV/0!	0.0
0	1	0	TGCGTGCGTG	11332	#DIV/0!	0.0	#DIV/0!
1	0	0	TGCGTGGACC	11333	0.0	#DIV/0!	0.0
0	0	1	TGCGTGGACT	11334	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TGCGTGGTGG	11335	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TGCGTTAAAA	11336	0.0	#DIV/0!	0.0
1	0	0	TGCGTTAAAT	11337	0.0	#DIV/0!	0.0
1	0	0	TGCGTTATGG	11338	0.0	#DIV/0!	0.0

Table 5, cont.

0	1	0	TGCGTTGTCG	11339	#DIV/0!	0.0	#DIV/0!
1	0	0	TGCTAAAGGT	11340	0.0	#DIV/0!	0.0
0	1	0	TGCTATTGAT	11341	#DIV/0!	0.0	#DIV/0!
0	1	0	TGCTATTTCA	11342	#DIV/0!	0.0	#DIV/0!
1	0	0	TGCTCAAAAA	11343	0.0	#DIV/0!	0.0
0	1	0	TGCTCAGCGC	11344	#DIV/0!	0.0	#DIV/0!
0	0	1	TGCTCTTCGC	11345	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TGCTGACAAC	11346	0.0	#DIV/0!	0.0
0	0	1	TGCTGAGAAC	11347	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TGCTGCCCGC	11348	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TGCTGTCACA	11349	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TGCTGTTGTT	11350	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TGCTTAACTA	11351	#DIV/0!	0.0	#DIV/0!
0	1	0	TGCTTCAACT	11352	#DIV/0!	0.0	#DIV/0!
0	1	0	TGCTTCCCCT	11353	#DIV/0!	0.0	#DIV/0!
0	0	1	TGCTTGTATT	11354	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TGGAACTACC	11355	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TGGAACTTCT	11356	#DIV/0!	0.0	#DIV/0!
0	1	0	TGGAAGAGGA	11357	#DIV/0!	0.0	#DIV/0!
0	1	0	TGGAAGCTAG	11358	#DIV/0!	0.0	#DIV/0!
1	0	0	TGGAAGCTTC	11359	0.0	#DIV/0!	0.0
0	0	1	TGGAATGGAC	11360	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TGGAATGTGG	11361	#DIV/0!	0.0	#DIV/0!
0	1	0	TGGACACCGT	11362	#DIV/0!	0.0	#DIV/0!
0	0	1	TGGACACCTT	11363	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TGGACTACCG	11364	0.0	#DIV/0!	0.0
0	1	0	TGGAGAATGT	11365	#DIV/0!	0.0	#DIV/0!
0	1	0	TGGAGATTAA	11366	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

1	0	0	TGGAGGTTTG	11367	0.0	#DIV/0!	0.0
1	0	0	TGGAGTACTC	11368	0.0	#DIV/0!	0.0
0	1	0	TGGAGTAGAA	11369	#DIV/0!	0.0	#DIV/0!
0	1	0	TGGAGTATAT	11370	#DIV/0!	0.0	#DIV/0!
0	0	1	TGGAGTATGG	11371	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TGGAGTCCCT	11372	0.0	#DIV/0!	0.0
0	0	1	TGGAGTCGTG	11373	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TGGAGTGAGA	11374	#DIV/0!	0.0	#DIV/0!
0	1	0	TGGATAAAGA	11375	#DIV/0!	0.0	#DIV/0!
0	1	0	TGGATCATAT	11376	#DIV/0!	0.0	#DIV/0!
0	1	0	TGGATGAACC	11377	#DIV/0!	0.0	#DIV/0!
1	0	0	TGGATGACGA	11378	0.0	#DIV/0!	0.0
0	1	0	TGGATTGTTG	11379	#DIV/0!	0.0	#DIV/0!
0	0	1	TGGCACCCTG	11380	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TGGCACCTAG	11381	0.0	#DIV/0!	0.0
0	0	1	TGGCACTTGG	11382	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TGGCAGTCTA	11383	#DIV/0!	0.0	#DIV/0!
0	0	1	TGGCATCCTG	11384	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TGGCATTCTC	11385	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TGGCCACCAG	11386	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TGGCCACCAT	11387	0.0	#DIV/0!	0.0
1	0	0	TGGCGAAAAA	11388	0.0	#DIV/0!	0.0
0	1	0	TGGCGAAGTC	11389	#DIV/0!	0.0	#DIV/0!
0	0	1	TGGCGACAAG	11390	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TGGCGATATT	11391	0.0	#DIV/0!	0.0
0	1	0	TGGCGATGGA	11392	#DIV/0!	0.0	#DIV/0!
0	0	1	TGGCGCCGCA	11393	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TGGCGTGGTG	11394	0.0	#DIV/0!	0.0

Table 5, cont.

0	1	0	TGGCTAATAA	11395	#DIV/0!	0.0	#DIV/0!
0	1	0	TGGCTCTTTG	11396	#DIV/0!	0.0	#DIV/0!
0	1	0	TGGCTGGTTG	11397	#DIV/0!	0.0	#DIV/0!
1	0	0	TGGCTTAAAA	11398	0.0	#DIV/0!	0.0
1	0	0	TGGCTTTGGA	11399	0.0	#DIV/0!	0.0
0	0	1	TGGGAAATTT	11400	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TGGGAACGAC	11401	0.0	#DIV/0!	0.0
0	0	1	TGGGACACTG	11402	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TGGGAGGTGA	11403	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TGGGAGTACC	11404	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TGGGATGGAC	11405	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TGGGCTATCT	11406	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TGGGCTTGGA	11407	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TGGGGAACTG	11408	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TGGGGACTCG	11409	#DIV/0!	0.0	#DIV/0!
0	0	1	TGGGGCTTGG	11410	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TGGGGTGAGG	11411	#DIV/0!	0.0	#DIV/0!
1	0	0	TGGGGTGCGA	11412	0.0	#DIV/0!	0.0
0	0	1	TGGGGTTGTG	11413	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TGGGTAAGCA	11414	#DIV/0!	0.0	#DIV/0!
1	0	0	TGGGTAGTGA	11415	0.0	#DIV/0!	0.0
0	1	0	TGGGTGCTCT	11416	#DIV/0!	0.0	#DIV/0!
1	0	0	TGGGTGTCTA	11417	0.0	#DIV/0!	0.0
1	0	0	TGGGTGTGGA	11418	0.0	#DIV/0!	0.0
0	1	0	TGGGTTGGGA	11419	#DIV/0!	0.0	#DIV/0!
0	1	0	TGGGTTGGTG	11420	#DIV/0!	0.0	#DIV/0!
0	0	1	TGGGTTTGGG	11421	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TGGGTTTTTG	11422	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

0	0	1	TGGTAAATAA	11423	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TGGTAAGGTG	11424	0.0	#DIV/0!	0.0
1	0	0	TGGTACTAGA	11425	0.0	#DIV/0!	0.0
0	1	0	TGGTACTATT	11426	#DIV/0!	0.0	#DIV/0!
1	0	0	TGGTAGAGAA	11427	0.0	#DIV/0!	0.0
0	1	0	TGGTAGCGGT	11428	#DIV/0!	0.0	#DIV/0!
0	0	1	TGGTATTAGG	11429	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TGGTCATAAA	11430	0.0	#DIV/0!	0.0
0	1	0	TGGTCATTAA	11431	#DIV/0!	0.0	#DIV/0!
1	0	0	TGGTCCCACA	11432	0.0	#DIV/0!	0.0
1	0	0	TGGTCGAAGA	11433	0.0	#DIV/0!	0.0
1	0	0	TGGTCGAGCC	11434	0.0	#DIV/0!	0.0
1	0	0	TGGTCGCTGT	11435	0.0	#DIV/0!	0.0
0	0	1	TGGTCGGAGA	11436	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TGGTCTTCTA	11437	#DIV/0!	0.0	#DIV/0!
0	1	0	TGGTGAAATA	11438	#DIV/0!	0.0	#DIV/0!
1	0	0	TGGTGAAATG	11439	0.0	#DIV/0!	0.0
0	0	1	TGGTGAATTT	11440	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TGGTGACTGT	11441	0.0	#DIV/0!	0.0
0	0	1	TGGTGATTTA	11442	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TGGTGCGGCT	11443	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TGGTGGAAAA	11444	#DIV/0!	0.0	#DIV/0!
0	0	1	TGGTGGAAAT	11445	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TGGTGGAGTC	11446	0.0	#DIV/0!	0.0
0	1	0	TGGTGTTAGT	11447	#DIV/0!	0.0	#DIV/0!
0	1	0	TGGTTAAAAA	11448	#DIV/0!	0.0	#DIV/0!
0	1	0	TGGTTAAAAT	11449	#DIV/0!	0.0	#DIV/0!
0	0	1	TGGTTGAAGG	11450	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

1	0	0	TGGTTGCCAA	11451	0.0	#DIV/0!	0.0
0	1	0	TGGTTTAAAA	11452	#DIV/0!	0.0	#DIV/0!
0	1	0	TGTAAAATTT	11453	#DIV/0!	0.0	#DIV/0!
0	1	0	TGTAAAGTTA	11454	#DIV/0!	0.0	#DIV/0!
0	1	0	TGTAACCTTT	11455	#DIV/0!	0.0	#DIV/0!
0	1	0	TGTAACGTTT	11456	#DIV/0!	0.0	#DIV/0!
0	0	1	TGTAAGAACC	11457	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TGTAAGAACT	11458	0.0	#DIV/0!	0.0
0	0	1	TGTAAGTTGG	11459	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TGTAATGATA	11460	#DIV/0!	0.0	#DIV/0!
1	0	0	TGTAATTAAC	11461	0.0	#DIV/0!	0.0
0	1	0	TGTACCAGTT	11462	#DIV/0!	0.0	#DIV/0!
0	1	0	TGTACGCAGA	11463	#DIV/0!	0.0	#DIV/0!
1	0	0	TGTACGCGGT	11464	0.0	#DIV/0!	0.0
1	0	0	TGTACTACGA	11465	0.0	#DIV/0!	0.0
0	0	1	TGTACTGATG	11466	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TGTAGCTACT	11467	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TGTATAATTT	11468	#DIV/0!	0.0	#DIV/0!
0	0	1	TGTATACTTA	11469	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TGTATATCTA	11470	0.0	#DIV/0!	0.0
0	1	0	TGTATATTTT	11471	#DIV/0!	0.0	#DIV/0!
0	0	1	TGTATCTGGG	11472	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TGTATGAAAA	11473	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TGTATGTAAT	11474	#DIV/0!	0.0	#DIV/0!
0	1	0	TGTATGTACA	11475	#DIV/0!	0.0	#DIV/0!
0	1	0	TGTATTATAT	11476	#DIV/0!	0.0	#DIV/0!
0	0	1	TGTATTCATA	11477	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TGTATTTTAA	11478	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	0	1	TGTCAAATCA	11479	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TGTCAACGCA	11480	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TGTCAAGTGG	11481	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TGTCAATCCA	11482	#DIV/0!	0.0	#DIV/0!
1	0	0	TGTCAGAAAA	11483	0.0	#DIV/0!	0.0
0	0	1	TGTCATTTTG	11484	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TGTCCAAATA	11485	0.0	#DIV/0!	0.0
0	0	1	TGTCCACTGC	11486	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TGTCCCGATC	11487	0.0	#DIV/0!	0.0
0	0	1	TGTCCTGTAT	11488	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TGTCGACGAC	11489	#DIV/0!	0.0	#DIV/0!
0	0	1	TGTCGCTGTG	11490	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TGTCGGAAAT	11491	#DIV/0!	0.0	#DIV/0!
0	1	0	TGTCGGGTGG	11492	#DIV/0!	0.0	#DIV/0!
1	0	0	TGTCGTGCTG	11493	0.0	#DIV/0!	0.0
1	0	0	TGTCGTGGCG	11494	0.0	#DIV/0!	0.0
1	0	0	TGTCGTGGTA	11495	0.0	#DIV/0!	0.0
1	0	0	TGTCGTGGTC	11496	0.0	#DIV/0!	0.0
0	1	0	TGTCGTTGTG	11497	#DIV/0!	0.0	#DIV/0!
0	1	0	TGTCTATCAT	11498	#DIV/0!	0.0	#DIV/0!
1	0	0	TGTCTCAGCA	11499	0.0	#DIV/0!	0.0
0	0	1	TGTCTCGCGA	11500	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TGTCTCTTGT	11501	#DIV/0!	0.0	#DIV/0!
0	0	1	TGTCTGGTGG	11502	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TGTCTGTATT	11503	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TGTCTTTGGT	11504	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TGTGACGCAG	11505	0.0	#DIV/0!	0.0
0	1	0	TGTGACTAGT	11506	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	0	1	TGTGAGACGG	11507	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TGTGAGTGAA	11508	0.0	#DIV/0!	0.0
0	1	0	TGTGATTTAA	11509	#DIV/0!	0.0	#DIV/0!
0	1	0	TGTGCAGAGG	11510	#DIV/0!	0.0	#DIV/0!
0	0	1	TGTGCCATCG	11511	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TGTGCCTAAT	11512	#DIV/0!	0.0	#DIV/0!
1	0	0	TGTGCGAAAA	11513	0.0	#DIV/0!	0.0
0	1	0	TGTGCTTGAT	11514	#DIV/0!	0.0	#DIV/0!
0	1	0	TGTGGATATG	11515	#DIV/0!	0.0	#DIV/0!
0	1	0	TGTGGATTCC	11516	#DIV/0!	0.0	#DIV/0!
0	1	0	TGTGGCTCGA	11517	#DIV/0!	0.0	#DIV/0!
1	0	0	TGTGGGAAAC	11518	0.0	#DIV/0!	0.0
0	0	1	TGTGGGTGTA	11519	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TGTGGTCACT	11520	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TGTGTAAGAA	11521	0.0	#DIV/0!	0.0
1	0	0	TGTGTAGTCT	11522	0.0	#DIV/0!	0.0
1	0	0	TGTGTATATT	11523	0.0	#DIV/0!	0.0
1	0	0	TGTGTATGGA	11524	0.0	#DIV/0!	0.0
1	0	0	TGTGTATTTA	11525	0.0	#DIV/0!	0.0
0	1	0	TGTGTCGTTG	11526	#DIV/0!	0.0	#DIV/0!
0	1	0	TGTGTCTTAC	11527	#DIV/0!	0.0	#DIV/0!
0	0	1	TGTGTTAATA	11528	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TGTGTTTACC	11529	0.0	#DIV/0!	0.0
0	1	0	TGTTAAAGCA	11530	#DIV/0!	0.0	#DIV/0!
0	1	0	TGTTAACCGA	11531	#DIV/0!	0.0	#DIV/0!
0	0	1	TGTTAAGTAG	11532	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TGTTAATTAG	11533	#DIV/0!	0.0	#DIV/0!
0	0	1	TGTTATAGTT	11534	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

1	0	0	TGTTATGATA	11535	0.0	#DIV/0!	0.0
1	0	0	TGTTCAAAAA	11536	0.0	#DIV/0!	0.0
0	0	1	TGTTCAAGAG	11537	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TGTTCACCTG	11538	#DIV/0!	0.0	#DIV/0!
1	0	0	TGTTCCAAAA	11539	0.0	#DIV/0!	0.0
0	0	1	TGTTCCACTT	11540	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TGTTCCGTTG	11541	0.0	#DIV/0!	0.0
1	0	0	TGTTCTTTAA	11542	0.0	#DIV/0!	0.0
0	1	0	TGTTGAACTG	11543	#DIV/0!	0.0	#DIV/0!
0	1	0	TGTTGCTAAA	11544	#DIV/0!	0.0	#DIV/0!
0	0	1	TGTTGGAGGG	11545	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TGTTGGTTTG	11546	#DIV/0!	0.0	#DIV/0!
1	0	0	TGTTGTATTG	11547	0.0	#DIV/0!	0.0
0	0	1	TGTTGTCGGA	11548	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TGTTGTGGAC	11549	0.0	#DIV/0!	0.0
1	0	0	TGTTTACTTT	11550	0.0	#DIV/0!	0.0
0	1	0	TGTTTCCCCA	11551	#DIV/0!	0.0	#DIV/0!
0	1	0	TGTTTCGATA	11552	#DIV/0!	0.0	#DIV/0!
0	1	0	TGTTTGGTTC	11553	#DIV/0!	0.0	#DIV/0!
0	0	1	TGTTTGTTTG	11554	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TGTTTTCAGA	11555	#DIV/0!	0.0	#DIV/0!
0	0	1	TGTTTTCCCG	11556	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TGTTTTCTTG	11557	#DIV/0!	0.0	#DIV/0!
0	1	0	TGTTTTGAAA	11558	#DIV/0!	0.0	#DIV/0!
0	0	1	TGTTTTTCAG	11559	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TGTTTTTGAT	11560	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TGTTTTTGGA	11561	0.0	#DIV/0!	0.0
1	0	0	TGTTTTTTTG	11562	0.0	#DIV/0!	0.0

Table 5, cont.

1	0	0	TTAAAAAGTT	11563	0.0	#DIV/0!	0.0
0	0	1	TTAAAACGAA	11564	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TTAAAATAAA	11565	0.0	#DIV/0!	0.0
0	1	0	TTAAAATATG	11566	#DIV/0!	0.0	#DIV/0!
1	0	0	TTAAAATGGG	11567	0.0	#DIV/0!	0.0
0	1	0	TTAAACCCTT	11568	#DIV/0!	0.0	#DIV/0!
0	1	0	TTAAACGGTA	11569	#DIV/0!	0.0	#DIV/0!
0	1	0	TTAAACGGTT	11570	#DIV/0!	0.0	#DIV/0!
0	0	1	TTAAACTACC	11571	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTAAACTGAG	11572	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTAAAGAAAA	11573	#DIV/0!	0.0	#DIV/0!
0	1	0	TTAAAGTTTT	11574	#DIV/0!	0.0	#DIV/0!
0	0	1	TTAAATTCAT	11575	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TTAAATTTTT	11576	0.0	#DIV/0!	0.0
1	0	0	TTAACAACAA	11577	0.0	#DIV/0!	0.0
0	0	1	TTAACAACTA	11578	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTAACGAAGC	11579	#DIV/0!	0.0	#DIV/0!
0	0	1	TTAACGGCCA	11580	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTAACGGCCG	11581	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTAACGGCTG	11582	#DIV/0!	0.0	#DIV/0!
0	1	0	TTAACTTGGC	11583	#DIV/0!	0.0	#DIV/0!
0	1	0	TTAACTTTTT	11584	#DIV/0!	0.0	#DIV/0!
0	1	0	TTAAGCCATC	11585	#DIV/0!	0.0	#DIV/0!
0	1	0	TTAAGCGCCT	11586	#DIV/0!	0.0	#DIV/0!
0	0	1	TTAAGCTATC	11587	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TTAAGGTTTA	11588	0.0	#DIV/0!	0.0
1	0	0	TTAAGTAACT	11589	0.0	#DIV/0!	0.0
1	0	0	TTAAGTATCG	11590	0.0	#DIV/0!	0.0

Table 5, cont.

0	1	0	TTAAGTCACG	11591	#DIV/0!	0.0	#DIV/0!
1	0	0	TTAAGTGAAT	11592	0.0	#DIV/0!	0.0
0	0	1	TTAAGTTTTC	11593	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTAATAATCA	11594	#DIV/0!	0.0	#DIV/0!
0	1	0	TTAATGACCT	11595	#DIV/0!	0.0	#DIV/0!
0	1	0	TTAATGGTAT	11596	#DIV/0!	0.0	#DIV/0!
0	1	0	TTAATTAGAG	11597	#DIV/0!	0.0	#DIV/0!
0	1	0	TTAATTAGTT	11598	#DIV/0!	0.0	#DIV/0!
0	1	0	TTAATTATGG	11599	#DIV/0!	0.0	#DIV/0!
1	0	0	TTAATTTCCA	11600	0.0	#DIV/0!	0.0
1	0	0	TTAATTTTAT	11601	0.0	#DIV/0!	0.0
0	0	1	TTACAAAAAA	11602	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTACAATCGG	11603	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TTACAATTAA	11604	0.0	#DIV/0!	0.0
0	1	0	TTACAGGTTG	11605	#DIV/0!	0.0	#DIV/0!
0	0	1	TTACCAAGTC	11606	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTACCTGAAT	11607	#DIV/0!	0.0	#DIV/0!
0	1	0	TTACGCACAT	11608	#DIV/0!	0.0	#DIV/0!
1	0	0	TTACGGTGCC	11609	0.0	#DIV/0!	0.0
0	1	0	TTACTAAAAA	11610	#DIV/0!	0.0	#DIV/0!
0	1	0	TTACTAACAT	11611	#DIV/0!	0.0	#DIV/0!
0	0	1	TTACTAGCCT	11612	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTACTAGTAT	11613	#DIV/0!	0.0	#DIV/0!
1	0	0	TTACTGAGGG	11614	0.0	#DIV/0!	0.0
0	1	0	TTACTGCAAT	11615	#DIV/0!	0.0	#DIV/0!
1	0	0	TTACTGTAAC	11616	0.0	#DIV/0!	0.0
0	0	1	TTACTTCGGC	11617	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TTACTTTCTA	11618	0.0	#DIV/0!	0.0

Table 5, cont.

0	0	1	TTACTTTTGA	11619	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTACTTTTTA	11620	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTAGAAAGCC	11621	#DIV/0!	0.0	#DIV/0!
0	1	0	TTAGAATAAG	11622	#DIV/0!	0.0	#DIV/0!
0	1	0	TTAGACCTTT	11623	#DIV/0!	0.0	#DIV/0!
0	0	1	TTAGACGCGG	11624	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTAGAGGTTG	11625	#DIV/0!	0.0	#DIV/0!
0	1	0	TTAGAGTCAA	11626	#DIV/0!	0.0	#DIV/0!
0	1	0	TTAGATATTC	11627	#DIV/0!	0.0	#DIV/0!
0	0	1	TTAGATGAAG	11628	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTAGATTTAT	11629	#DIV/0!	0.0	#DIV/0!
0	0	1	TTAGCAATAT	11630	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTAGCCCTAT	11631	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TTAGCGAAAT	11632	0.0	#DIV/0!	0.0
0	0	1	TTAGCTGCCA	11633	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTAGCTGCTG	11634	#DIV/0!	0.0	#DIV/0!
0	1	0	TTAGCTTCTA	11635	#DIV/0!	0.0	#DIV/0!
0	1	0	TTAGGAAGTT	11636	#DIV/0!	0.0	#DIV/0!
1	0	0	TTAGGTTCTA	11637	0.0	#DIV/0!	0.0
0	1	0	TTAGTAGAAT	11638	#DIV/0!	0.0	#DIV/0!
0	0	1	TTAGTCTCTA	11639	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTAGTCTGAC	11640	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TTAGTGAAAA	11641	0.0	#DIV/0!	0.0
0	1	0	TTAGTGAAGA	11642	#DIV/0!	0.0	#DIV/0!
1	0	0	TTAGTGAATA	11643	0.0	#DIV/0!	0.0
0	1	0	TTAGTGTCAA	11644	#DIV/0!	0.0	#DIV/0!
0	0	1	TTAGTTCGAA	11645	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTAGTTTATA	11646	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	0	1	TTAGTTTCAA	11647	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTAGTTTCGA	11648	#DIV/0!	0.0	#DIV/0!
1	0	0	TTAGTTTCTC	11649	0.0	#DIV/0!	0.0
0	0	1	TTATAAGAAG	11650	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTATAAGAAT	11651	#DIV/0!	0.0	#DIV/0!
1	0	0	TTATAAGTCA	11652	0.0	#DIV/0!	0.0
0	0	1	TTATAATGAA	11653	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTATAATTGA	11654	#DIV/0!	0.0	#DIV/0!
1	0	0	TTATACTATT	11655	0.0	#DIV/0!	0.0
1	0	0	TTATAGAATG	11656	0.0	#DIV/0!	0.0
1	0	0	TTATAGATGC	11657	0.0	#DIV/0!	0.0
1	0	0	TTATAGATTT	11658	0.0	#DIV/0!	0.0
0	1	0	TTATAGTATA	11659	#DIV/0!	0.0	#DIV/0!
0	1	0	TTATAGTGAA	11660	#DIV/0!	0.0	#DIV/0!
0	1	0	TTATATATAT	11661	#DIV/0!	0.0	#DIV/0!
0	1	0	TTATATTGAC	11662	#DIV/0!	0.0	#DIV/0!
0	1	0	TTATCAAAAA	11663	#DIV/0!	0.0	#DIV/0!
0	0	1	TTATCAAAGG	11664	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTATCAAATG	11665	#DIV/0!	0.0	#DIV/0!
0	1	0	TTATCATAAT	11666	#DIV/0!	0.0	#DIV/0!
0	0	1	TTATCCTTTG	11667	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TTATCGTCAA	11668	0.0	#DIV/0!	0.0
0	0	1	TTATCGTGTC	11669	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TTATCGTGTT	11670	0.0	#DIV/0!	0.0
1	0	0	TTATCGTTGG	11671	0.0	#DIV/0!	0.0
1	0	0	TTATCTATAA	11672	0.0	#DIV/0!	0.0
0	1	0	TTATCTATTT	11673	#DIV/0!	0.0	#DIV/0!
0	1	0	TTATGAAGGA	11674	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	0	1	TTATGCTTAG	11675	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTATGCTTTC	11676	#DIV/0!	0.0	#DIV/0!
1	0	0	TTATGGAGTG	11677	0.0	#DIV/0!	0.0
1	0	0	TTATGGATCT	11678	0.0	#DIV/0!	0.0
1	0	0	TTATGGCTAT	11679	0.0	#DIV/0!	0.0
1	0	0	TTATGGGTGC	11680	0.0	#DIV/0!	0.0
0	0	1	TTATGGTAGG	11681	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TTATTAAAAA	11682	0.0	#DIV/0!	0.0
1	0	0	TTATTAATGA	11683	0.0	#DIV/0!	0.0
0	1	0	TTATTACCCA	11684	#DIV/0!	0.0	#DIV/0!
0	1	0	TTATTATGCC	11685	#DIV/0!	0.0	#DIV/0!
0	0	1	TTATTCAAGA	11686	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTATTCGCCA	11687	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TTATTGAGGC	11688	0.0	#DIV/0!	0.0
1	0	0	TTATTGATAT	11689	0.0	#DIV/0!	0.0
1	0	0	TTATTGATGC	11690	0.0	#DIV/0!	0.0
0	0	1	TTATTTCGGT	11691	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTATTTCTTT	11692	#DIV/0!	0.0	#DIV/0!
1	0	0	TTATTTTGCC	11693	0.0	#DIV/0!	0.0
0	1	0	TTATTTTTCA	11694	#DIV/0!	0.0	#DIV/0!
0	1	0	TTATTTTTGC	11695	#DIV/0!	0.0	#DIV/0!
1	0	0	TTCAAAAAAA	11696	0.0	#DIV/0!	0.0
0	1	0	TTCAAAAATC	11697	#DIV/0!	0.0	#DIV/0!
0	1	0	TTCAAAAGAC	11698	#DIV/0!	0.0	#DIV/0!
0	0	1	TTCAAAAGAG	11699	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTCAAAAGCA	11700	#DIV/0!	0.0	#DIV/0!
0	0	1	TTCAAAAGGA	11701	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTCAACAAGG	11702	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

0	0	1	TTCAACCAGT	11703	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TTCAAGACTC	11704	0.0	#DIV/0!	0.0
1	0	0	TTCAAGCCCC	11705	0.0	#DIV/0!	0.0
0	0	1	TTCAAGGAGA	11706	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTCAAGTAAA	11707	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TTCAAGTTGC	11708	0.0	#DIV/0!	0.0
0	1	0	TTCAATTCTT	11709	#DIV/0!	0.0	#DIV/0!
0	1	0	TTCACAATGC	11710	#DIV/0!	0.0	#DIV/0!
0	1	0	TTCACATAAG	11711	#DIV/0!	0.0	#DIV/0!
0	1	0	TTCACCAATT	11712	#DIV/0!	0.0	#DIV/0!
1	0	0	TTCACCCAAC	11713	0.0	#DIV/0!	0.0
1	0	0	TTCACCTAAG	11714	0.0	#DIV/0!	0.0
0	0	1	TTCACTGAAT	11715	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTCACTTAAC	11716	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTCACTTTCA	11717	#DIV/0!	0.0	#DIV/0!
0	1	0	TTCACTTTTT	11718	#DIV/0!	0.0	#DIV/0!
1	0	0	TTCAGAAAAA	11719	0.0	#DIV/0!	0.0
0	0	1	TTCAGAAAGG	11720	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TTCAGCGGAT	11721	0.0	#DIV/0!	0.0
0	1	0	TTCAGCTTGA	11722	#DIV/0!	0.0	#DIV/0!
1	0	0	TTCAGGAAAA	11723	0.0	#DIV/0!	0.0
1	0	0	TTCAGGTCAC	11724	0.0	#DIV/0!	0.0
1	0	0	TTCAGGTTTT	11725	0.0	#DIV/0!	0.0
0	1	0	TTCAGTGAAA	11726	#DIV/0!	0.0	#DIV/0!
0	0	1	TTCAGTTCGA	11727	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTCATAAGGA	11728	#DIV/0!	0.0	#DIV/0!
0	1	0	TTCATACCAA	11729	#DIV/0!	0.0	#DIV/0!
1	0	0	TTCATTCACT	11730	0.0	#DIV/0!	0.0

Table 5, cont.

0	1	0	TTCATTCTCT	11731	#DIV/0!	0.0	#DIV/0!
1	0	0	TTCCAAATAT	11732	0.0	#DIV/0!	0.0
1	0	0	TTCCAATAAA	11733	0.0	#DIV/0!	0.0
0	1	0	TTCCAATGAT	11734	#DIV/0!	0.0	#DIV/0!
0	1	0	TTCCACAATT	11735	#DIV/0!	0.0	#DIV/0!
1	0	0	TTCCACTCCT	11736	0.0	#DIV/0!	0.0
0	0	1	TTCCACTTTG	11737	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TTCCAGCACC	11738	0.0	#DIV/0!	0.0
0	1	0	TTCCAGTAAC	11739	#DIV/0!	0.0	#DIV/0!
0	0	1	TTCCATATAG	11740	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TTCCATCTGA	11741	0.0	#DIV/0!	0.0
0	1	0	TTCCCACACT	11742	#DIV/0!	0.0	#DIV/0!
1	0	0	TTCCCAGAAT	11743	0.0	#DIV/0!	0.0
0	1	0	TTCCCCAAGT	11744	#DIV/0!	0.0	#DIV/0!
0	1	0	TTCCCCAATA	11745	#DIV/0!	0.0	#DIV/0!
0	1	0	TTCCCCACTA	11746	#DIV/0!	0.0	#DIV/0!
0	1	0	TTCCCCTTAC	11747	#DIV/0!	0.0	#DIV/0!
0	1	0	TTCCCCTTTT	11748	#DIV/0!	0.0	#DIV/0!
0	0	1	TTCCCGCGGA	11749	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TTCCGAGATC	11750	0.0	#DIV/0!	0.0
0	1	0	TTCCGATTAA	11751	#DIV/0!	0.0	#DIV/0!
0	1	0	TTCCTAAAAA	11752	#DIV/0!	0.0	#DIV/0!
0	0	1	TTCCTAATTT	11753	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTCCTCGCCT	11754	#DIV/0!	0.0	#DIV/0!
1	0	0	TTCCTCTAAA	11755	0.0	#DIV/0!	0.0
1	0	0	TTCCTGACCG	11756	0.0	#DIV/0!	0.0
0	1	0	TTCCTGTGTG	11757	#DIV/0!	0.0	#DIV/0!
0	1	0	TTCCTTTCCT	11758	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	0	1	TTCGAATTAG	11759	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTCGAGACAA	11760	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTCGAGTTTG	11761	#DIV/0!	0.0	#DIV/0!
0	1	0	TTCGATCCAA	11762	#DIV/0!	0.0	#DIV/0!
1	0	0	TTCGATCTTT	11763	0.0	#DIV/0!	0.0
0	1	0	TTCGCAACTT	11764	#DIV/0!	0.0	#DIV/0!
0	1	0	TTCGCTAGAA	11765	#DIV/0!	0.0	#DIV/0!
1	0	0	TTCGCTGATT	11766	0.0	#DIV/0!	0.0
0	1	0	TTCGCTGTCC	11767	#DIV/0!	0.0	#DIV/0!
1	0	0	TTCGCTTTTT	11768	0.0	#DIV/0!	0.0
0	0	1	TTCGGAGATT	11769	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTCGGCGGTC	11770	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTCGGGCCAC	11771	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTCGGGGTCA	11772	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTCGGGTCCA	11773	#DIV/0!	0.0	#DIV/0!
0	0	1	TTCGGGTCTC	11774	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTCGTAGTAG	11775	#DIV/0!	0.0	#DIV/0!
0	1	0	TTCGTATTAC	11776	#DIV/0!	0.0	#DIV/0!
0	1	0	TTCGTGATCC	11777	#DIV/0!	0.0	#DIV/0!
0	0	1	TTCGTTAACT	11778	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TTCGTTCACA	11779	0.0	#DIV/0!	0.0
1	0	0	TTCGTTCATT	11780	0.0	#DIV/0!	0.0
1	0	0	TTCGTTCCCT	11781	0.0	#DIV/0!	0.0
1	0	0	TTCTAATATA	11782	0.0	#DIV/0!	0.0
1	0	0	TTCTACAACA	11783	0.0	#DIV/0!	0.0
0	1	0	TTCTATGCTT	11784	#DIV/0!	0.0	#DIV/0!
0	0	1	TTCTATGTCT	11785	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTCTATTAGC	11786	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	1	0	TTCTATTGGA	11787	#DIV/0!	0.0	#DIV/0!
1	0	0	TTCTATTTAA	11788	0.0	#DIV/0!	0.0
0	1	0	TTCTCGTACT	11789	#DIV/0!	0.0	#DIV/0!
1	0	0	TTCTCTAAGA	11790	0.0	#DIV/0!	0.0
0	1	0	TTCTCTTCAC	11791	#DIV/0!	0.0	#DIV/0!
0	1	0	TTCTGATGAG	11792	#DIV/0!	0.0	#DIV/0!
0	1	0	TTCTGATGTT	11793	#DIV/0!	0.0	#DIV/0!
0	1	0	TTCTGCAAGT	11794	#DIV/0!	0.0	#DIV/0!
0	0	1	TTCTGCAGTC	11795	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TTCTGCTATC	11796	0.0	#DIV/0!	0.0
1	0	0	TTCTGCTTAA	11797	0.0	#DIV/0!	0.0
0	0	1	TTCTGCTTAG	11798	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTCTGTACAA	11799	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTCTGTTGCA	11800	#DIV/0!	0.0	#DIV/0!
1	0	0	TTCTTAATGG	11801	0.0	#DIV/0!	0.0
0	1	0	TTCTTAGACA	11802	#DIV/0!	0.0	#DIV/0!
0	0	1	TTCTTATACA	11803	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTCTTCTACC	11804	#DIV/0!	0.0	#DIV/0!
0	0	1	TTCTTGATTA	11805	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TTCTTTCTGA	11806	0.0	#DIV/0!	0.0
1	0	0	TTCTTTGCAG	11807	0.0	#DIV/0!	0.0
1	0	0	TTGAAAGAAA	11808	0.0	#DIV/0!	0.0
0	1	0	TTGAAAGAGA	11809	#DIV/0!	0.0	#DIV/0!
0	0	1	TTGAAATAGT	11810	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TTGAAATGTG	11811	0.0	#DIV/0!	0.0
0	0	1	TTGAAATTTA	11812	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TTGAAATTTC	11813	0.0	#DIV/0!	0.0
1	0	0	TTGAACTATC	11814	0.0	#DIV/0!	0.0

Table 5, cont.

0	0	1	TTGAACTCCC	11815	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TTGAACTTCC	11816	0.0	#DIV/0!	0.0
1	0	0	TTGAACTTTG	11817	0.0	#DIV/0!	0.0
1	0	0	TTGAAGACAG	11818	0.0	#DIV/0!	0.0
0	0	1	TTGAAGATTA	11819	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTGAAGCAGA	11820	#DIV/0!	0.0	#DIV/0!
1	0	0	TTGAAGGATT	11821	0.0	#DIV/0!	0.0
0	1	0	TTGAAGGGGA	11822	#DIV/0!	0.0	#DIV/0!
0	0	1	TTGAAGTTGA	11823	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTGAATAACG	11824	#DIV/0!	0.0	#DIV/0!
0	1	0	TTGAATTTTC	11825	#DIV/0!	0.0	#DIV/0!
1	0	0	TTGACAAATG	11826	0.0	#DIV/0!	0.0
0	0	1	TTGACAATCC	11827	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTGACAATTA	11828	#DIV/0!	0.0	#DIV/0!
1	0	0	TTGACAGGAA	11829	0.0	#DIV/0!	0.0
1	0	0	TTGACCAGTT	11830	0.0	#DIV/0!	0.0
0	0	1	TTGACCCGTG	11831	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTGACCGGAG	11832	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTGACCTACC	11833	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTGACGGTAA	11834	#DIV/0!	0.0	#DIV/0!
0	1	0	TTGACGTGCA	11835	#DIV/0!	0.0	#DIV/0!
0	0	1	TTGACTAACC	11836	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTGACTACCC	11837	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TTGACTCCAC	11838	0.0	#DIV/0!	0.0
0	1	0	TTGACTCGCC	11839	#DIV/0!	0.0	#DIV/0!
0	0	1	TTGACTTTCT	11840	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTGAGAAATG	11841	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTGAGAACGT	11842	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

1	0	0	TTGAGAACTC	11843	0.0	#DIV/0!	0.0
0	1	0	TTGAGCTACC	11844	#DIV/0!	0.0	#DIV/0!
0	1	0	TTGATACCGT	11845	#DIV/0!	0.0	#DIV/0!
1	0	0	TTGATAGGTT	11846	0.0	#DIV/0!	0.0
0	0	1	TTGATATCAA	11847	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTGATATGCT	11848	#DIV/0!	0.0	#DIV/0!
0	1	0	TTGATCACGG	11849	#DIV/0!	0.0	#DIV/0!
0	1	0	TTGATCCCGT	11850	#DIV/0!	0.0	#DIV/0!
0	1	0	TTGATCTCAT	11851	#DIV/0!	0.0	#DIV/0!
1	0	0	TTGATGCCAG	11852	0.0	#DIV/0!	0.0
1	0	0	TTGATGGTTT	11853	0.0	#DIV/0!	0.0
0	0	1	TTGATGTGAT	11854	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TTGATGTTAT	11855	0.0	#DIV/0!	0.0
0	0	1	TTGATGTTGA	11856	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTGATTTTGA	11857	#DIV/0!	0.0	#DIV/0!
0	1	0	TTGCAAACGA	11858	#DIV/0!	0.0	#DIV/0!
1	0	0	TTGCAAGGCA	11859	0.0	#DIV/0!	0.0
0	0	1	TTGCAATAGA	11860	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TTGCAATATC	11861	0.0	#DIV/0!	0.0
1	0	0	TTGCACACAG	11862	0.0	#DIV/0!	0.0
0	1	0	TTGCACAGGC	11863	#DIV/0!	0.0	#DIV/0!
0	1	0	TTGCACCCAC	11864	#DIV/0!	0.0	#DIV/0!
0	1	0	TTGCAGAGAT	11865	#DIV/0!	0.0	#DIV/0!
0	1	0	TTGCAGGTGG	11866	#DIV/0!	0.0	#DIV/0!
0	1	0	TTGCAGTAAT	11867	#DIV/0!	0.0	#DIV/0!
0	1	0	TTGCAGTGAT	11868	#DIV/0!	0.0	#DIV/0!
0	1	0	TTGCATATGG	11869	#DIV/0!	0.0	#DIV/0!
0	1	0	TTGCATCCGG	11870	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

1	0	0	TTGCCAATCT	11871	0.0	#DIV/0!	0.0
0	0	1	TTGCCACTGG	11872	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTGCCAGGCT	11873	#DIV/0!	0.0	#DIV/0!
0	1	0	TTGCCATTCT	11874	#DIV/0!	0.0	#DIV/0!
0	1	0	TTGCCCAGTC	11875	#DIV/0!	0.0	#DIV/0!
1	0	0	TTGCCCATTT	11876	0.0	#DIV/0!	0.0
0	0	1	TTGCCCCACA	11877	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TTGCCGGTCT	11878	0.0	#DIV/0!	0.0
0	0	1	TTGCCGTACA	11879	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TTGCCGTATC	11880	0.0	#DIV/0!	0.0
0	1	0	TTGCCTCAGT	11881	#DIV/0!	0.0	#DIV/0!
0	1	0	TTGCCTCTTT	11882	#DIV/0!	0.0	#DIV/0!
1	0	0	TTGCGATAGA	11883	0.0	#DIV/0!	0.0
0	0	1	TTGCGTCAAT	11884	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTGCTAGGCA	11885	#DIV/0!	0.0	#DIV/0!
0	1	0	TTGCTAGTCT	11886	#DIV/0!	0.0	#DIV/0!
0	0	1	TTGCTCCACC	11887	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTGCTCTGGG	11888	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTGCTCTTTG	11889	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTGCTGATCT	11890	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTGCTGGTGA	11891	#DIV/0!	0.0	#DIV/0!
0	0	1	TTGCTGTTGG	11892	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTGCTTCATT	11893	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTGCTTTGGG	11894	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TTGGAAAAAT	11895	0.0	#DIV/0!	0.0
1	0	0	TTGGAAAAGA	11896	0.0	#DIV/0!	0.0
0	0	1	TTGGAACTAC	11897	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTGGAAGGAT	11898	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

0	1	0	TTGGAATTTT	11899	#DIV/0!	0.0	#DIV/0!
0	1	0	TTGGACAGGA	11900	#DIV/0!	0.0	#DIV/0!
0	0	1	TTGGACCCAC	11901	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTGGACCTTG	11902	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TTGGAGAAGA	11903	0.0	#DIV/0!	0.0
0	1	0	TTGGAGAATT	11904	#DIV/0!	0.0	#DIV/0!
1	0	0	TTGGAGTAAG	11905	0.0	#DIV/0!	0.0
1	0	0	TTGGATAGCC	11906	0.0	#DIV/0!	0.0
1	0	0	TTGGATGTCA	11907	0.0	#DIV/0!	0.0
1	0	0	TTGGATTCGT	11908	0.0	#DIV/0!	0.0
0	1	0	TTGGATTTTA	11909	#DIV/0!	0.0	#DIV/0!
1	0	0	TTGGCAAACC	11910	0.0	#DIV/0!	0.0
0	1	0	TTGGCAAAGA	11911	#DIV/0!	0.0	#DIV/0!
1	0	0	TTGGCAAGGG	11912	0.0	#DIV/0!	0.0
0	0	1	TTGGCATCTT	11913	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTGGCCATTC	11914	#DIV/0!	0.0	#DIV/0!
0	1	0	TTGGCCCAAC	11915	#DIV/0!	0.0	#DIV/0!
0	0	1	TTGGCCCCGG	11916	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTGGCCCCTC	11917	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTGGCCTCGC	11918	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTGGCGATGA	11919	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTGGCGGAAA	11920	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTGGCGGTTA	11921	#DIV/0!	0.0	#DIV/0!
0	0	1	TTGGCTGATA	11922	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTGGCTTCTG	11923	#DIV/0!	0.0	#DIV/0!
0	0	1	TTGGGAAAAA	11924	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTGGGCACGC	11925	#DIV/0!	0.0	#DIV/0!
1	0	0	TTGGGCCCCA	11926	0.0	#DIV/0!	0.0

Table 5, cont.

0	0	1	TTGGGCTAGG	11927	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TTGGGGAATT	11928	0.0	#DIV/0!	0.0
0	0	1	TTGGGGTTGG	11929	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTGGGTAAAT	11930	#DIV/0!	0.0	#DIV/0!
0	1	0	TTGGGTAGAA	11931	#DIV/0!	0.0	#DIV/0!
0	1	0	TTGGGTTAGA	11932	#DIV/0!	0.0	#DIV/0!
0	1	0	TTGGTAAATC	11933	#DIV/0!	0.0	#DIV/0!
0	1	0	TTGGTAACCT	11934	#DIV/0!	0.0	#DIV/0!
0	1	0	TTGGTAGTGA	11935	#DIV/0!	0.0	#DIV/0!
1	0	0	TTGGTAGTGT	11936	0.0	#DIV/0!	0.0
1	0	0	TTGGTATAAT	11937	0.0	#DIV/0!	0.0
1	0	0	TTGGTCCAGT	11938	0.0	#DIV/0!	0.0
0	0	1	TTGGTCTTTG	11939	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTGGTGCAGA	11940	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TTGGTTTTCA	11941	0.0	#DIV/0!	0.0
0	1	0	TTGGTTTTGG	11942	#DIV/0!	0.0	#DIV/0!
0	1	0	TTGTAAGAAG	11943	#DIV/0!	0.0	#DIV/0!
1	0	0	TTGTAATACG	11944	0.0	#DIV/0!	0.0
0	0	1	TTGTAATCTA	11945	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTGTAATTAC	11946	#DIV/0!	0.0	#DIV/0!
1	0	0	TTGTACCAGG	11947	0.0	#DIV/0!	0.0
0	1	0	TTGTACCTTT	11948	#DIV/0!	0.0	#DIV/0!
1	0	0	TTGTACTGAA	11949	0.0	#DIV/0!	0.0
1	0	0	TTGTACTTTG	11950	0.0	#DIV/0!	0.0
0	1	0	TTGTAGTATA	11951	#DIV/0!	0.0	#DIV/0!
0	1	0	TTGTATCCTT	11952	#DIV/0!	0.0	#DIV/0!
1	0	0	TTGTATTAAG	11953	0.0	#DIV/0!	0.0
0	1	0	TTGTCAAAAT	11954	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

0	1	0	TTGTCAAATT	11955	#DIV/0!	0.0	#DIV/0!
1	0	0	TTGTCAGAGG	11956	0.0	#DIV/0!	0.0
1	0	0	TTGTCATTGG	11957	0.0	#DIV/0!	0.0
1	0	0	TTGTCCAAGA	11958	0.0	#DIV/0!	0.0
0	1	0	TTGTCCCTTT	11959	#DIV/0!	0.0	#DIV/0!
0	0	1	TTGTCCTTGG	11960	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTGTCGGTGG	11961	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TTGTCGTGGA	11962	0.0	#DIV/0!	0.0
1	0	0	TTGTCTATGG	11963	0.0	#DIV/0!	0.0
1	0	0	TTGTCTCTGG	11964	0.0	#DIV/0!	0.0
0	1	0	TTGTCTCTTC	11965	#DIV/0!	0.0	#DIV/0!
0	1	0	TTGTCTCTTG	11966	#DIV/0!	0.0	#DIV/0!
0	0	1	TTGTCTTTCG	11967	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTGTCTTTGA	11968	#DIV/0!	0.0	#DIV/0!
0	0	1	TTGTGAAGAG	11969	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTGTGACCAC	11970	#DIV/0!	0.0	#DIV/0!
0	1	0	TTGTGAGGCG	11971	#DIV/0!	0.0	#DIV/0!
0	1	0	TTGTGCGCAC	11972	#DIV/0!	0.0	#DIV/0!
0	0	1	TTGTGGTAGC	11973	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TTGTGGTATA	11974	0.0	#DIV/0!	0.0
0	1	0	TTGTGGTCGG	11975	#DIV/0!	0.0	#DIV/0!
0	1	0	TTGTGTTCAA	11976	#DIV/0!	0.0	#DIV/0!
1	0	0	TTGTTATTTG	11977	0.0	#DIV/0!	0.0
1	0	0	TTGTTCAGGT	11978	0.0	#DIV/0!	0.0
1	0	0	TTGTTCCACA	11979	0.0	#DIV/0!	0.0
0	0	1	TTGTTCGTAA	11980	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTGTTCGTGA	11981	#DIV/0!	0.0	#DIV/0!
0	0	1	TTGTTCGTTT	11982	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

0	1	0	TTGTTCTTTT	11983	#DIV/0!	0.0	#DIV/0!
1	0	0	TTGTTGAAAG	11984	0.0	#DIV/0!	0.0
0	1	0	TTGTTTACCC	11985	#DIV/0!	0.0	#DIV/0!
0	0	1	TTTAAAAATG	11986	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TTTAAAACGG	11987	0.0	#DIV/0!	0.0
0	1	0	TTTAAAATCA	11988	#DIV/0!	0.0	#DIV/0!
1	0	0	TTTAAAATGC	11989	0.0	#DIV/0!	0.0
0	1	0	TTTAAAGATG	11990	#DIV/0!	0.0	#DIV/0!
1	0	0	TTTAAAGTGG	11991	0.0	#DIV/0!	0.0
0	0	1	TTTAAATGGT	11992	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TTTAACACTG	11993	0.0	#DIV/0!	0.0
0	1	0	TTTAACAGCT	11994	#DIV/0!	0.0	#DIV/0!
0	1	0	TTTAACAGTC	11995	#DIV/0!	0.0	#DIV/0!
0	1	0	TTTAACATTA	11996	#DIV/0!	0.0	#DIV/0!
0	1	0	TTTAACTGAA	11997	#DIV/0!	0.0	#DIV/0!
0	0	1	TTTAACTTGG	11998	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTTAACTTTT	11999	#DIV/0!	0.0	#DIV/0!
1	0	0	TTTAAGATGG	12000	0.0	#DIV/0!	0.0
0	1	0	TTTAAGATTG	12001	#DIV/0!	0.0	#DIV/0!
0	1	0	TTTAAGCTGG	12002	#DIV/0!	0.0	#DIV/0!
1	0	0	TTTAATAATC	12003	0.0	#DIV/0!	0.0
0	1	0	TTTAATATAT	12004	#DIV/0!	0.0	#DIV/0!
0	1	0	TTTAATATCT	12005	#DIV/0!	0.0	#DIV/0!
1	0	0	TTTAATATTG	12006	0.0	#DIV/0!	0.0
1	0	0	TTTAATGACA	12007	0.0	#DIV/0!	0.0
0	0	1	TTTAATTACT	12008	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTTAATTTGC	12009	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TTTACAAATG	12010	0.0	#DIV/0!	0.0

Table 5, cont.

0	1	0	TTTACATAAA	12011	#DIV/0!	0.0	#DIV/0!
0	1	0	TTTACCCAGT	12012	#DIV/0!	0.0	#DIV/0!
0	1	0	TTTACCGATC	12013	#DIV/0!	0.0	#DIV/0!
0	1	0	TTTACCGCAA	12014	#DIV/0!	0.0	#DIV/0!
0	0	1	TTTACCGCTT	12015	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTTACCGGTT	12016	#DIV/0!	0.0	#DIV/0!
0	1	0	TTTACCTGTT	12017	#DIV/0!	0.0	#DIV/0!
0	1	0	TTTACGAAGA	12018	#DIV/0!	0.0	#DIV/0!
1	0	0	TTTACGATGA	12019	0.0	#DIV/0!	0.0
1	0	0	TTTACGCCCC	12020	0.0	#DIV/0!	0.0
1	0	0	TTTACGTATT	12021	0.0	#DIV/0!	0.0
1	0	0	TTTACTACTG	12022	0.0	#DIV/0!	0.0
1	0	0	TTTACTATAT	12023	0.0	#DIV/0!	0.0
1	0	0	TTTACTTACT	12024	0.0	#DIV/0!	0.0
1	0	0	TTTACTTTCG	12025	0.0	#DIV/0!	0.0
0	1	0	TTTAGAAGAG	12026	#DIV/0!	0.0	#DIV/0!
1	0	0	TTTAGAATGG	12027	0.0	#DIV/0!	0.0
0	0	1	TTTAGATCCG	12028	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTTAGCAGTA	12029	#DIV/0!	0.0	#DIV/0!
1	0	0	TTTAGCCAAT	12030	0.0	#DIV/0!	0.0
0	1	0	TTTAGCTACC	12031	#DIV/0!	0.0	#DIV/0!
0	0	1	TTTAGTATCT	12032	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTTAGTATTT	12033	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTTAGTCAAA	12034	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TTTAGTGAGA	12035	0.0	#DIV/0!	0.0
1	0	0	TTTATATAAT	12036	0.0	#DIV/0!	0.0
0	1	0	TTTATCACCA	12037	#DIV/0!	0.0	#DIV/0!
1	0	0	TTTATCTCCC	12038	0.0	#DIV/0!	0.0

Table 5, cont.

0	1	0	TTTATGATAA	12039	#DIV/0!	0.0	#DIV/0!
0	1	0	TTTATGTGTA	12040	#DIV/0!	0.0	#DIV/0!
0	1	0	TTTCAAAGAG	12041	#DIV/0!	0.0	#DIV/0!
0	0	1	TTTCAAAGGG	12042	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TTTCAACAAG	12043	0.0	#DIV/0!	0.0
0	0	1	TTTCAACTCG	12044	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTTCAAGAAA	12045	#DIV/0!	0.0	#DIV/0!
0	1	0	TTTCAATAAA	12046	#DIV/0!	0.0	#DIV/0!
0	1	0	TTTCACAGGA	12047	#DIV/0!	0.0	#DIV/0!
0	1	0	TTTCACCATC	12048	#DIV/0!	0.0	#DIV/0!
0	0	1	TTTCAGCGTT	12049	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTTCAGGAGA	12050	#DIV/0!	0.0	#DIV/0!
0	0	1	TTTCAGGCTA	12051	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TTTCATAAAT	12052	0.0	#DIV/0!	0.0
0	1	0	TTTCATCGAA	12053	#DIV/0!	0.0	#DIV/0!
0	1	0	TTTCATTATC	12054	#DIV/0!	0.0	#DIV/0!
0	1	0	TTTCATTGAA	12055	#DIV/0!	0.0	#DIV/0!
1	0	0	TTTCCAACTC	12056	0.0	#DIV/0!	0.0
1	0	0	TTTCCAAGTC	12057	0.0	#DIV/0!	0.0
0	0	1	TTTCCAGAAG	12058	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTTCCCGAGT	12059	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTTCCGCGCT	12060	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TTTCCGCGGC	12061	0.0	#DIV/0!	0.0
1	0	0	TTTCCGCTAA	12062	0.0	#DIV/0!	0.0
0	1	0	TTTCCTAGAA	12063	#DIV/0!	0.0	#DIV/0!
0	1	0	TTTCCTATCT	12064	#DIV/0!	0.0	#DIV/0!
0	0	1	TTTCCTATGA	12065	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTTCCTGCGC	12066	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

0	1	0	TTTCCTTTTA	12067	#DIV/0!	0.0	#DIV/0!
1	0	0	TTTCGCCCTC	12068	0.0	#DIV/0!	0.0
1	0	0	TTTCGGGAAC	12069	0.0	#DIV/0!	0.0
0	0	1	TTTCGGTTTT	12070	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTTCGTCTCC	12071	#DIV/0!	0.0	#DIV/0!
0	1	0	TTTCGTGGTG	12072	#DIV/0!	0.0	#DIV/0!
0	1	0	TTTCTAAGCT	12073	#DIV/0!	0.0	#DIV/0!
0	1	0	TTTCTACTGG	12074	#DIV/0!	0.0	#DIV/0!
1	0	0	TTTCTCAAGG	12075	0.0	#DIV/0!	0.0
1	0	0	TTTCTCATTT	12076	0.0	#DIV/0!	0.0
0	0	1	TTTCTGAGTG	12077	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTTCTGATGG	12078	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTTCTGCCCC	12079	#DIV/0!	0.0	#DIV/0!
0	1	0	TTTCTGGACA	12080	#DIV/0!	0.0	#DIV/0!
0	1	0	TTTCTGGTGG	12081	#DIV/0!	0.0	#DIV/0!
0	0	1	TTTCTGTCCG	12082	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TTTCTTAGAT	12083	0.0	#DIV/0!	0.0
0	0	1	TTTCTTATCC	12084	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTTCTTCGAG	12085	#DIV/0!	0.0	#DIV/0!
1	0	0	TTTCTTGTCT	12086	0.0	#DIV/0!	0.0
1	0	0	TTTCTTTCCC	12087	0.0	#DIV/0!	0.0
0	0	1	TTTCTTTGAT	12088	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TTTGAAAATG	12089	0.0	#DIV/0!	0.0
1	0	0	TTTGAAGACG	12090	0.0	#DIV/0!	0.0
0	1	0	TTTGAAGCCT	12091	#DIV/0!	0.0	#DIV/0!
1	0	0	TTTGACAACA	12092	0.0	#DIV/0!	0.0
0	0	1	TTTGACAAGT	12093	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TTTGACCGCA	12094	0.0	#DIV/0!	0.0

Table 5, cont.

0	1	0	TTTGACGGTG	12095	#DIV/0!	0.0	#DIV/0!
1	0	0	TTTGAGAACT	12096	0.0	#DIV/0!	0.0
1	0	0	TTTGAGTCAG	12097	0.0	#DIV/0!	0.0
1	0	0	TTTGATATTA	12098	0.0	#DIV/0!	0.0
0	0	1	TTTGATTACT	12099	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTTGATTATG	12100	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TTTGCAACAG	12101	0.0	#DIV/0!	0.0
1	0	0	TTTGCACCTT	12102	0.0	#DIV/0!	0.0
1	0	0	TTTGCATATG	12103	0.0	#DIV/0!	0.0
0	0	1	TTTGCCAAGT	12104	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTTGCCGTAG	12105	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTTGCGAACC	12106	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTTGCTACAT	12107	#DIV/0!	0.0	#DIV/0!
1	0	0	TTTGCTTCAC	12108	0.0	#DIV/0!	0.0
0	0	1	TTTGCTTCCT	12109	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTTGCTTTAA	12110	#DIV/0!	0.0	#DIV/0!
1	0	0	TTTGGAAAAT	12111	0.0	#DIV/0!	0.0
0	1	0	TTTGGAGACG	12112	#DIV/0!	0.0	#DIV/0!
0	1	0	TTTGGAGAGA	12113	#DIV/0!	0.0	#DIV/0!
0	0	1	TTTGGAGTGA	12114	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TTTGGCACGT	12115	0.0	#DIV/0!	0.0
0	1	0	TTTGGCAGAT	12116	#DIV/0!	0.0	#DIV/0!
0	1	0	TTTGGCATTT	12117	#DIV/0!	0.0	#DIV/0!
1	0	0	TTTGGCGATA	12118	0.0	#DIV/0!	0.0
1	0	0	TTTGGTACTT	12119	0.0	#DIV/0!	0.0
1	0	0	TTTGGTAGTG	12120	0.0	#DIV/0!	0.0
1	0	0	TTTGGTGATA	12121	0.0	#DIV/0!	0.0
0	0	1	TTTGTACAAG	12122	#DIV/0!	#DIV/0!	#DIV/0!

Table 5, cont.

0	1	0	TTTGTACTGG	12123	#DIV/0!	0.0	#DIV/0!
1	0	0	TTTGTATTTC	12124	0.0	#DIV/0!	0.0
0	1	0	TTTGTCGTAA	12125	#DIV/0!	0.0	#DIV/0!
0	1	0	TTTGTCTGAA	12126	#DIV/0!	0.0	#DIV/0!
1	0	0	TTTGTGAACG	12127	0.0	#DIV/0!	0.0
1	0	0	TTTGTTATAT	12128	0.0	#DIV/0!	0.0
1	0	0	TTTGTTCGTT	12129	0.0	#DIV/0!	0.0
1	0	0	TTTGTTGCTT	12130	0.0	#DIV/0!	0.0
0	1	0	TTTGTTTAGT	12131	#DIV/0!	0.0	#DIV/0!
0	0	1	TTTGTTTCCC	12132	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTTGTTTGTA	12133	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TTTTAAAAAA	12134	0.0	#DIV/0!	0.0
1	0	0	TTTTAAGTTA	12135	0.0	#DIV/0!	0.0
0	0	1	TTTTAATGCT	12136	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TTTTACACTC	12137	0.0	#DIV/0!	0.0
1	0	0	TTTTACAGAT	12138	0.0	#DIV/0!	0.0
0	1	0	TTTTACCGTT	12139	#DIV/0!	0.0	#DIV/0!
0	1	0	TTTTAGATAC	12140	#DIV/0!	0.0	#DIV/0!
1	0	0	TTTTAGTAGT	12141	0.0	#DIV/0!	0.0
0	1	0	TTTTAGTCGC	12142	#DIV/0!	0.0	#DIV/0!
0	1	0	TTTTAGTGAC	12143	#DIV/0!	0.0	#DIV/0!
1	0	0	TTTTAGTGTT	12144	0.0	#DIV/0!	0.0
1	0	0	TTTTATCATC	12145	0.0	#DIV/0!	0.0
1	0	0	TTTTATCTAA	12146	0.0	#DIV/0!	0.0
0	1	0	TTTTATTACC	12147	#DIV/0!	0.0	#DIV/0!
0	1	0	TTTTATTACT	12148	#DIV/0!	0.0	#DIV/0!
0	0	1	TTTTATTATT	12149	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTTTATTGAT	12150	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

1	0	0	TTTTCAAGTG	12151	0.0	#DIV/0!	0.0
0	1	0	TTTTCAATAT	12152	#DIV/0!	0.0	#DIV/0!
1	0	0	TTTTCAGAGG	12153	0.0	#DIV/0!	0.0
1	0	0	TTTTCAGCAT	12154	0.0	#DIV/0!	0.0
1	0	0	TTTTCCAGAA	12155	0.0	#DIV/0!	0.0
1	0	0	TTTTCCAGGT	12156	0.0	#DIV/0!	0.0
0	0	1	TTTTCCCCCT	12157	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTTTCCGCTA	12158	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TTTTCGCAAC	12159	0.0	#DIV/0!	0.0
0	1	0	TTTTCTATTG	12160	#DIV/0!	0.0	#DIV/0!
0	0	1	TTTTCTCAAA	12161	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TTTTCTCGTT	12162	0.0	#DIV/0!	0.0
1	0	0	TTTTCTTCCA	12163	0.0	#DIV/0!	0.0
1	0	0	TTTTCTTGAG	12164	0.0	#DIV/0!	0.0
0	0	1	TTTTGAATTC	12165	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTTTGAGAAT	12166	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TTTTGAGATT	12167	0.0	#DIV/0!	0.0
0	1	0	TTTTGAGGAA	12168	#DIV/0!	0.0	#DIV/0!
1	0	0	TTTTGAGTAT	12169	0.0	#DIV/0!	0.0
1	0	0	TTTTGATATG	12170	0.0	#DIV/0!	0.0
1	0	0	TTTTGATTCC	12171	0.0	#DIV/0!	0.0
0	0	1	TTTTGCGTGG	12172	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTTTGCGTTT	12173	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTTTGCTACG	12174	#DIV/0!	0.0	#DIV/0!
1	0	0	TTTTGGAAAA	12175	0.0	#DIV/0!	0.0
0	0	1	TTTTGGGCTG	12176	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTTTGGTACA	12177	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTTTGTACAG	12178	#DIV/0!	0.0	#DIV/0!

Table 5, cont.

1	0	0	TTTTGTACGA	12179	0.0	#DIV/0!	0.0
1	0	0	TTTTGTGTTC	12180	0.0	#DIV/0!	0.0
1	0	0	TTTTGTTCAA	12181	0.0	#DIV/0!	0.0
0	1	0	TTTTGTTGTG	12182	#DIV/0!	0.0	#DIV/0!
0	0	1	TTTTGTTTGC	12183	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TTTTTACGTC	12184	0.0	#DIV/0!	0.0
0	0	1	TTTTTAGAGG	12185	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTTTTAGGCA	12186	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TTTTTAGTGC	12187	0.0	#DIV/0!	0.0
0	1	0	TTTTTCAGTC	12188	#DIV/0!	0.0	#DIV/0!
0	0	1	TTTTTCATAT	12189	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TTTTTCCGCA	12190	0.0	#DIV/0!	0.0
0	0	1	TTTTTCGTAT	12191	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTTTTCTCAG	12192	#DIV/0!	#DIV/0!	#DIV/0!
0	0	1	TTTTTCTCTT	12193	#DIV/0!	#DIV/0!	#DIV/0!
0	1	0	TTTTTGGTGT	12194	#DIV/0!	0.0	#DIV/0!
0	1	0	TTTTTGTATA	12195	#DIV/0!	0.0	#DIV/0!
0	1	0	TTTTTTAACT	12196	#DIV/0!	0.0	#DIV/0!
0	1	0	TTTTTTAGAG	12197	#DIV/0!	0.0	#DIV/0!
0	0	1	TTTTTTGAAT	12198	#DIV/0!	#DIV/0!	#DIV/0!
1	0	0	TTTTTTTAAC	12199	0.0	#DIV/0!	0.0
1	0	0	TTTTTTTCTG	12200	0.0	#DIV/0!	0.0
1	0	0	TTTTTTTTAA	12201	0.0	#DIV/0!	0.0
0	1	0	TTTTTTTTTA	12202	#DIV/0!	0.0	#DIV/0!
0	1	0	TTTTTTTTTT	12203	#DIV/0!	0.0	#DIV/0!

Table 6. Analysis of NORFs in intergenic regions

Chromosome	ORF Start Position	ORF End Position	SAGE Tag	Tag Position	# Copies per cell	SEQ ID NO:
1	82289	82520	GCATTGATGT	83003	1.1	302
1	82393	82603	GCATTGATGT	83003	1.1	303
1	87139	87235	TGGTACAAGG	87657	0.8	304
1	138363	138468	GTTTTCCTTT	138346	0.8	305
1	199452	199530	AAGTTTGATC	199861	0.5	306
1	199571	199679	AAGTTTGATC	199861	0.5	307
1	199650	199749	AAGTTTGATC	199861	0.5	308
2	45659	45758	CACACCAAGA	46225	36.8	309
2	45843	45927	CACACCAAGA	46225	36.8	310
2	45894	45768	GTCAAGGTTT	46225	-2.1	311
2	101406	101181	GACCCTTCCT	101071	-1.9	312
2	101441	101336	GACCCTTCCT	101071	-1.9	313
2	101670	101481	GACCCTTCCT	101071	-1.9	314
2	143419	143329	TTGTCTTTCC	143816	-1.9	315
2	164270	164141	TCTTCCAACG	163954	-0.5	316
2	164277	164160	TCTTCCAACG	163954	-0.5	317
2	164413	164332	TCTTCCAACG	163954	-0.5	318
2	164413	164332	TCATTCATAC	164729	-1.1	319
2	164511	164280	TCTTCCAACG	163954	-0.5	320
2	164511	164280	TCATTCATAC	164729	-1.1	321
2	164711	164630	TCATTCATAC	164729	-1.1	322
2	164731	164449	TCTTCCAACG	163954	-0.5	323
2	164731	164449	TCATTCATAC	164729	-1.1	324
2	164993	164786	TCATTCATAC	164729	-1.1	325
2	165070	164992	TCATTCATAC	164729	-1.1	326
2	165163	165088	TCATTCATAC	164729	-1.1	327

Table 6, cont.

2	165310	165217	TCATTCATAC	164729	-1.1	328
2	168083	167993	GATGTCGACG	167621	-3.2	329
2	168083	167993	GCCAAATCAT	167795	-0.5	330
2	191757	191682	GGAGCGTATA	191214	-0.5	331
2	207111	206976	TCATTTATGA	206643	-0.5	332
2	237723	237648	AGAAAGGATA	237221	-5.1	333
2	269981	270089	GATATGCTAT	270571	1.6	334
2	292027	292126	TTTTACAGTG	291819	1.1	335
2	350914	351010	AACGCTTTTC	351453	3.2	336
2	351211	351409	AACGCTTTTC	351453	3.2	337
2	373156	372892	GTACACCACA	372408	-6.9	338
2	375803	375677	ATCCAAGCTG	375218	-4.5	339
2	407148	407229	TTTTTTTGGA	407121	0.5	340
2	407258	407417	TTTTTTTGGA	407121	0.5	341
2	407415	407163	GGACCTGCCG	406912	-21.3	342
2	407502	407592	TTTTTTTGGA	407121	0.5	343
2	407534	407609	TTTTTTTGGA	407121	0.5	344
2	419118	418863	ACCCTGTCAT	418633	-8.0	345
2	419118	418863	TTCTATTAGG	418750	-1.9	346
2	419291	419429	TGATTTATCC	418947	0.5	347
2	490542	490617	TAGACATCTA	491114	6.1	348
2	490637	490718	TAGACATCTA	491114	6.1	349
2	549170	549065	GGCTCCTTAT	548739	-4.8	350
2	553439	553271	AATACCAATG	553662	-0.5	351
2	564889	564964	GAAAGCTTTT	564504	0.8	352
2	564889	564964	CAGAAATAGC	565131	0.8	353
2	571996	571894	GAAAGTGATG	571506	-1.9	354
2	572022	571947	GAAAGTGATG	571506	-1.9	355

Table 6, cont.

2	578052	578196	ATCTGTATTT	578531	2.4		356
2	578128	578215	ATCTGTATTT	578531	2.4		357
2	592769	592907	ATGGCTCAGT	592726	0.5		358
2	680317	680515	CGAAGTCAAA	680606	0.8		359
2	680591	680828	CGAAGTCAAA	680606	0.8		360
2	680604	680484	ACTGCATCTG	680861	-0.5		361
2	680854	680962	CGAAGTCAAA	680606	0.8		362
2	680862	681009	CGAAGTCAAA	680606	0.8		363
2	680896	680737	ACTGCATCTG	680861	-0.5		364
2	681416	681182	ACTGCATCTG	680861	-0.5		365
2	744624	744780	CAAGTTAGGA	744771	0.5		366
2	799902	800052	TAGTCGCTGT	800544	0.5		367
2	800304	800412	TAGTCGCTGT	800544	0.5		368
3	24097	24346	CTGAAGCAGA	23866	1.1		369
3	24244	24103	GGTTTTGGCG	24168	-4.5		370
3	24308	24017	GGTTTTGGCG	24168	-4.5		371
3	29795	29915	ATACCCAATT	29938	0.5		372
3	29795	29915	AACTTTGTAT	30055	0.5		373
3	41465	41702	GCGGCGGGTG	41647	0.5		374
3	56762	56840	ATGGTAGCCA	56965	1.6		375
3	56762	56840	AAAATTGTTC	57112	0.5		376
3	118040	118145	CGGCCATTAT	118537	0.8		377
3	131368	131260	GAAGAACGTC	131047	-1.6		378
3	154938	154845	TTGAGGAACG	154678	-2.4		379
3	157511	157667	TCAAGTACTC	157852	0.5		380
3	175540	175462	AATACCAGCG	175538	-1.3		381
3	289916	290111	ACAAGCCCAA	289915	0.5		382
4	65111	65024	TTTAATACTG	65386	-1.6		383

Table 6, cont.

4	94228	94114	GTACAGGGCT	93873	-0.5	384
4	117459	117573	ATATATTTAG	117098	1.6	385
4	155987	155909	GTGAACAGTC	155452	-0.5	386
4	169785	169863	TATCTTTTTG	169784	1.1	387
4	229244	229349	CCAAATCAAA	229491	3.7	388
4	254853	254751	AAGATCATCG	254851	-0.5	389
4	255125	254996	AAGATCATCG	254851	-0.5	390
4	255306	255204	AAGATCATCG	254851	-0.5	391
4	302933	302843	GCTAAGAACC	302607	-2.4	392
4	303010	302932	GCTAAGAACC	302607	-2.4	393
4	303201	303042	GCTAAGAACC	302607	-2.4	394
4	340977	340812	GAACTCCTGG	340891	-0.5	395
4	363788	363932	AGGACGTTGA	364344	6.7	396
4	427124	427220	AAATTTGGGG	426725	0.5	397
4	431696	431606	TCAGCTCAAG	431556	-0.5	398
4	442493	442397	GAATTTTAGA	442107	-0.5	399
4	442577	442496	GAATTTTAGA	442107	-0.5	400
4	444118	444247	TAATTTTCAT	443782	0.5	401
4	452766	452679	GAGAAGACAG	453166	-0.5	402
4	452881	452959	TTTGGTGGTA	453166	13.9	403
4	471279	471369	AATACGTTAC	471791	0.5	404
4	471419	471506	AATACGTTAC	471791	0.5	405
4	503374	503479	AGCGAATGTA	503714	0.5	406
4	521353	521506	TGTTTATAAG	521709	0.5	407
4	521378	521480	TGTTTATAAG	521709	0.5	408
4	538841	538748	CGTTTTCGTC	538839	-0.5	409
4	538846	538756	CGTTTTCGTC	538839	-0.5	410
4	539135	539015	CGTTTTCGTC	538839	-0.5	411

Table 6, cont.

4	539160	539085	CGTTTTCGTC	538839	-0.5	412
4	539521	539236	CGTTTTCGTC	538839	-0.5	413
4	565889	565763	AAGCTGAGGA	565435	-1.9	414
4	769248	769164	TTGCAAGGTG	768862	-0.5	415
4	769405	769291	TTGCAAGGTG	768862	-0.5	416
4	914857	914767	CTGTCTCTGA	914409	-28.8	417
4	915000	914892	CTGTCTCTGA	914409	-28.8	418
4	930790	930910	TCCACACACA	930972	0.5	419
4	930916	931075	TCCACACACA	930972	0.5	420
4	1075290	1075209	TGTCTACCAA	1074719	-0.8	421
4	1075639	1075783	AATTGCCACC	1076144	1.1	422
4	1108535	1108319	GGCGCAATTT	1108395	-2.4	423
4	1108718	1108592	GGCGCAATTT	1108395	-2.4	424
4	1199134	1199050	CTGGTCGCGA	1198566	-0.5	425
4	1201741	1201819	GGCCAATGGT	1202286	8.5	426
4	1239272	1239356	GGTTTTGGTT	1239834	148.4	427
4	1239288	1239423	GGTTTTGGTT	1239834	148.4	428
4	1302865	1302955	TAGCCAATGC	1302517	0.8	429
4	1395010	1394827	AGGAAAAGAA	1394470	-1.1	430
4	1401524	1401608	GCTAAATTTT	1401803	6.1	431
4	1401597	1401462	GTTATATTGA	1401803	-0.8	432
4	1469125	1469215	GAGGATAACG	1469693	6.9	433
4	1469227	1469389	GAGGATAACG	1469693	6.9	434
4	1489072	1489249	AAAAGATCAT	1489450	7.2	435
4	1489451	1489538	AAAAGATCAT	1489450	7.2	436
4	1489776	1489608	TTCGTTCACT	1489450	-101.3	437
4	1489846	1489648	TTCGTTCACT	1489450	-101.3	438
5	7754	7643	GGTACGCAAG	7189	-0.5	439

Table 6, cont.

5	66987	66906	TATATTCTCG	67152	-3.7	440
5	67077	66990	TATATTCTCG	67152	-3.7	441
5	69510	69321	TGTCCTTCTC	68942	-0.5	442
5	117907	117808	GTACGCTGTG	118089	-1.1	443
5	118091	118010	GTACGCTGTG	118089	-1.1	444
5	159423	159534	AAGATGAAGG	159953	0.5	445
5	159517	159382	CCAAGTCTCG	159320	-0.5	446
5	167025	166923	TGCCCTGGCC	166452	-5.9	447
5	174995	175097	GTACTCCTCT	175533	0.5	448
5	187382	187292	GATTTCTCTG	187462	-1.3	449
5	187524	187317	GATTTCTCTG	187462	-1.3	450
5	187830	187749	GATTTCTCTG	187462	-1.3	451
5	250717	250999	GGACTATAAG	251266	1.6	452
5	251078	251276	GGACTATAAG	251266	1.6	453
5	251166	251091	TGGGTTGAAG	251266	-0.8	454
5	251418	251196	TGGGTTGAAG	251266	-0.8	455
5	251443	251695	GGACTATAAG	251266	1.6	456
5	251535	251457	TGGGTTGAAG	251266	-0.8	457
5	280856	280949	CGAGACTTGG	280518	1.3	458
5	288178	288103	AAAAGTAGTT	288398	-0.5	459
5	288316	288202	AAAAGTAGTT	288398	-0.5	460
5	288625	288427	AAAAGTAGTT	288398	-0.5	461
5	288843	288762	AAAAGTAGTT	288398	-0.5	462
5	288979	288853	AAAAGTAGTT	288398	-0.5	463
5	302750	302645	GCAACAAAAG	303010	-2.7	464
5	318642	318804	GTTCGAAAAC	319197	0.8	465
5	349352	349448	CCCATAGTGG	349198	0.5	466
5	414306	414216	GAAGAGAATG	413737	-3.5	467

Table 6, cont.

5	449471	449573	GATGCCGAAA	449827	5.9		468
5	449741	449663	ATTTTATTTG	449739	-0.8		469
5	449882	449762	ATTTTATTTG	449739	-0.8		470
5	462115	462322	GCAGAATGCT	462782	4.8		471
5	550699	550564	ATCATAAAAA	550622	-0.8		472
5	550800	550713	ATCATAAAAA	550622	-0.8		473
5	552326	552401	GACAATTTTT	552612	0.5		474
6	76470	76338	AAGTGATGAA	76141	-0.5		475
6	76688	76517	AAGTGATGAA	76141	-0.5		476
6	226566	226698	GGTGTGAAGG	226450	1.3		477
6	226705	226909	GGTGTGAAGG	226450	1.3		478
6	226778	226865	GGTGTGAAGG	226450	1.3		479
6	256326	256404	AGTGATTGTT	256223	0.5		480
6	256551	256659	AGTGATTGTT	256223	0.5		481
7	45394	45280	GTGATGAACT	44798	-2.4		482
7	144603	144678	TGCCAGACTC	145067	2.7		483
7	150309	150207	AAAGATCCGA	149894	-0.5		484
7	299797	299944	TGGCACCTCA	300075	1.9		485
7	323885	323762	TTCACCGGAA	323655	-0.5		486
7	324246	324132	TTCACCGGAA	323655	-0.5		487
7	401415	401331	GCTTTGATTG	400901	-6.1		488
7	402247	402418	ATAACGAAAA	402790	0.8		489
7	423684	423558	ACTATTCTGT	423957	-0.5		490
7	479053	479128	ATTTAAAACA	478646	0.5		491
7	485419	485527	CGCCTCCAGT	485772	2.9		492
7	506061	505956	GCCAAGAACT	505590	-0.5		493
7	523429	523552	TTTATTCAAT	523810	0.5		494
7	534651	534549	AAAGACAGAG	534357	-77.8		495

Table 6, cont.

7	535012	534742	AAAGACAGAG	534357	-77.8	496
7	559026	559101	AAAATATCTT	559397	0.5	497
7	560127	560019	TAAGGAGTTT	559702	-7.5	498
7	643861	644020	CAACAAGGTA	644349	1.6	499
7	695178	695256	AGCCCGTTTT	695627	0.5	500
7	735889	735787	AAGCGCACAA	735909	-0.5	501
7	756886	756727	TATGATGTGA	756360	-0.8	502
7	836065	835969	GTAAGAAATC	836202	-1.3	503
7	836084	836009	GTAAGAAATC	836202	-1.3	504
7	836203	836329	TGTATTTTTG	836202	0.5	505
7	836328	836595	TGTATTTTTG	836202	0.5	506
7	836340	836151	GTAAGAAATC	836202	-1.3	507
7	836340	836151	CTAAACAAAG	836587	-0.5	508
7	836341	836461	TGTATTTTTG	836202	0.5	509
7	836537	836462	GTAAGAAATC	836202	-1.3	510
7	836537	836462	CTAAACAAAG	836587	-0.5	511
7	836659	836383	GTAAGAAATC	836202	-1.3	512
7	836659	836383	CTAAACAAAG	836587	-0.5	513
7	856618	856726	ACGTTCTTTT	856247	31.2	514
7	867606	867528	GATATCTTTA	867110	-1.3	515
7	878487	878325	TATGGTAAAT	877872	-2.1	516
7	904952	904808	TAGGAAGAAA	905046	-0.5	517
7	905112	905031	TAGGAAGAAA	905046	-0.5	518
7	905158	905008	TAGGAAGAAA	905046	-0.5	519
7	939168	939090	GTTCTTGCCT	939579	-1.1	520
7	939405	939330	GTTCTTGCCT	939579	-1.1	521
7	939581	939419	GTTCTTGCCT	939579	-1.1	522
7	958643	958523	GGAAAAATTA	958839	-0.5	523

Table 6, cont.

7	958910	958826	GGAAAAATTA	958839	-0.5	524
7	959344	959239	GGAAAAATTA	958839	-0.5	525
7	959854	959743	GTCCATAAGC	960125	-0.8	526
7	973737	973920	AATCTTGAGA	973710	0.8	527
7	973965	974052	AATCTTGAGA	973710	0.8	528
7	974035	974161	AATCTTGAGA	973710	0.8	529
7	974093	974174	AATCTTGAGA	973710	0.8	530
7	974238	974319	TTTGGATAGT	974754	0.5	531
7	984769	984844	AGAGAGATGT	985326	0.8	532
8	34334	34232	CTACTTCTGC	34653	-0.8	533
8	116135	116030	CAGAAAATGG	115655	-6.7	534
8	116166	116070	CAGAAAATGG	115655	-6.7	535
8	202313	202199	CGTTTGTGTA	202655	-0.5	536
8	202390	202294	CGTTTGTGTA	202655	-0.5	537
8	202657	202507	CGTTTGTGTA	202655	-0.5	538
8	202934	202841	CGTTTGTGTA	202655	-0.5	539
8	203267	203033	CGTTTGTGTA	202655	-0.5	540
8	246114	246192	AAGGACTTTA	245695	0.5	541
8	375327	375123	ATTGCATCTC	374655	-1.9	542
8	387112	387034	AGAAAAAAAC	386651	-0.5	543
8	390068	390188	TTAGTGAAGG	390531	1.1	544
8	519335	519230	TAAAGTCCAG	518998	-0.5	545
8	529417	529291	TAAGCAGATT	529129	-0.5	546
8	529666	529585	TAAGCAGATT	529129	-0.5	547
9	47656	47758	AAGCGGTACT	47886	3.5	548
9	47875	47971	AAGCGGTACT	47886	3.5	549
9	68369	68513	CTCTCCCCCA	69011	0.5	550
9	150218	150398	ATTCGCAGAT	150886	1.1	551

Table 6, cont.

9	180379	180280	AGAACATCAA	180080	-1.3	552
10	73584	73431	TTTCAAGATG	73219	-3.5	553
10	116993	117119	ACGCTCCCAA	117476	1.1	554
10	159824	159701	ACTTTTTCAG	159213	-1.6	555
10	180882	180780	ATATAGCTGC	181144	-1.1	556
10	181408	181252	ATATAGCTGC	181144	-1.1	557
10	204817	204913	CTTCAGAATG	205291	0.5	558
10	337698	337821	GGGTTCTCTA	338217	0.5	559
10	434655	434781	ACAAAATTTG	435135	4.8	560
10	434755	434674	TACTCTCGTT	435135	-0.5	561
10	454483	454693	TAAGCGGAGT	454237	4.5	562
10	454622	454541	GGCTTCTCTA	454115	-0.5	563
10	471655	471556	TTCATAAGTT	471894	-0.8	564
10	471738	471546	TTCATAAGTT	471894	-0.8	565
10	472318	472192	TTCATAAGTT	471894	-0.8	566
10	525869	525968	TAATTAGTTA	526379	0.8	567
10	578134	577984	GCCGAATTCT	577507	-0.5	568
10	585344	585482	TCTTACAATA	585922	1.9	569
10	585501	585576	TCTTACAATA	585922	1.9	570
10	622714	622867	AATGTGGAAC	622554	0.5	571
10	622945	622849	GGTAACGTAA	622447	-36.0	572
10	639331	639433	TCTCCGTACA	639846	0.5	573
10	721815	721899	CAATTGGCAA	721778	0.5	574
10	721962	722046	CAATTGGCAA	721778	0.5	575
11	74111	73889	ATTCTGGATC	73672	-0.5	576
11	74191	74032	ATTCTGGATC	73672	-0.5	577
11	75637	75742	GCGTCCTCCC	75918	0.5	578
11	91601	91682	CCAAAAAAAA	91785	1.1	579

Table 6, cont.

11	91621	91756	CCAAAAAAAA	91785	1.1	580
11	91700	91826	CCAAAAAAAA	91785	1.1	581
11	93604	93778	GAACTCCACA	94125	1.1	582
11	93620	93731	GAACTCCACA	94125	1.1	583
11	93653	93539	ACTCCCTGTA	93528	-0.5	584
11	93822	93732	ACTCCCTGTA	93528	-0.5	585
11	94057	93919	ACTCCCTGTA	93528	-0.5	586
11	94076	94229	GAACTCCACA	94125	1.1	587
11	94111	94234	GAACTCCACA	94125	1.1	588
11	94127	93998	ACTCCCTGTA	93528	-0.5	589
11	143708	143804	CTCTATTGAT	144281	0.5	590
11	143803	143929	CTCTATTGAT	144281	0.5	591
11	146079	145929	TAAATCTGAG	145617	-0.8	592
11	146115	146196	GCTTTCCTTT	146665	0.5	593
11	146591	146756	GCTTTCCTTT	146665	0.5	594
11	151395	151557	CTGGTAGAAA	151174	0.8	595
11	202891	202981	AACAAGATTG	203396	1.1	596
11	203065	203146	AACAAGATTG	203396	1.1	597
11	212738	212657	TCTGTGAAAC	212642	-1.9	598
11	212805	212706	TCTGTGAAAC	212642	-1.9	599
11	212887	212773	TCTGTGAAAC	212642	-1.9	600
11	213019	212944	TCTGTGAAAC	212642	-1.9	601
11	226029	226119	GAGGCAAAAA	226288	0.5	602
11	231305	231446	ACCGCAAAGA	231872	0.5	603
11	316824	316716	TCTATTGTCA	316337	-4.8	604
11	374386	374269	CCTTCACTGC	374172	-1.1	605
11	374400	374499	CTGTTTTGGG	374761	1.9	606
11	374465	374339	CCTTCACTGC	374172	-1.1	607

Table 6, cont.

11	374612	374522	CCTTCACTGC	374172	-1.1	608
11	374986	375070	CTGTTTTGGG	374761	1.9	609
11	374986	375070	TTTAAAAAAA	375209	0.5	610
11	393014	392789	TTAGAGAGAC	392377	-3.2	611
11	430450	430354	TACTTTAAAC	430109	-0.5	612
11	437419	437536	GGTGATGAGG	437945	4.0	613
11	451014	450927	GTTCAAGAGG	450734	-0.8	614
11	527162	527009	AGAACTTCGT	526695	-1.9	615
11	527211	527100	AGAACTTCGT	526695	-1.9	616
11	527218	527119	AGAACTTCGT	526695	-1.9	617
11	578670	578745	GTTCCAAGAC	579136	6.4	618
11	580673	580553	TACCTCGTTA	580171	-0.5	619
11	580809	580623	TACCTCGTTA	580171	-0.5	620
11	625735	625840	CACATCATAA	625896	1.1	621
12	198728	198986	ATCATTTGGG	199358	1.3	622
12	230483	230570	CTTGTTCAAA	230973	0.5	623
12	230586	230679	CTTGTTCAAA	230973	0.5	624
12	230974	231106	CTTGTTCAAA	230973	0.5	625
12	231081	231201	CTTGTTCAAA	230973	0.5	626
12	282669	282522	GAGACTGCTA	282284	-4.0	627
12	286675	286759	ATAATGGAAC	287109	0.8	628
12	320057	320138	AATGTGCTGT	320427	0.5	629
12	320203	320314	AATGTGCTGT	320427	0.5	630
12	320428	320557	AATGTGCTGT	320427	0.5	631
12	320496	320640	AATGTGCTGT	320427	0.5	632
12	340974	341061	GCAGATAGCG	341325	0.5	633
12	341326	341587	GCAGATAGCG	341325	0.5	634
12	341402	341486	GCAGATAGCG	341325	0.5	635

Table 6, cont.

12	341463	341538	GCAGATAGCG	341325	0.5	636
12	341603	341783	GCAGATAGCG	341325	0.5	637
12	348410	348299	GAAAGCTAGA	347904	-0.8	638
12	348490	348364	GAAAGCTAGA	347904	-0.8	639
12	368278	368404	TCTGACTTAG	368781	0.5	640
12	390278	390419	GCCGTTCGAT	390118	0.8	641
12	449634	449715	GTAACGATTG	449918	0.5	642
12	449727	449895	GTAACGATTG	449918	0.5	643
12	449825	449996	GTAACGATTG	449918	0.5	644
12	449919	450075	GTAACGATTG	449918	0.5	645
12	574127	574046	CCGAAACAGG	573606	-0.8	646
12	669662	669470	TCTAGTCGCC	669660	-11.2	647
12	669894	669741	TCTAGTCGCC	669660	-11.2	648
12	722618	722381	TTGCTAAAGA	722091	-1.3	649
12	783612	783435	TTTACGATAA	782983	-5.6	650
12	783612	783435	TCAAACATCC	783017	-2.1	651
12	794725	794644	CATCACCATC	794711	-0.5	652
12	794732	794618	CATCACCATC	794711	-0.5	653
12	796120	796009	AAGGACAGAG	795803	-35.7	654
12	902675	902774	CCTTGTGGGA	903197	0.5	655
12	902685	902820	CCTTGTGGGA	903197	0.5	656
12	902773	902884	CCTTGTGGGA	903197	0.5	657
13	70306	70225	TGCCTCAGGA	69824	-1.3	658
13	104539	104413	TTGAAAAGAT	104160	-1.9	659
13	158623	158698	CTTCTCTTTT	158970	13.1	660
13	158624	158507	GTCATATAGT	158765	-1.6	661
13	158624	158507	CTCTTAGTTG	158970	-0.5	662
13	158760	158964	CTTCTCTTTT	158970	13.1	663

Table 6, cont.

13	158972	158876	GTCATATAGT	158765	-1.6	664
13	158972	158876	CTCTTAGTTG	158970	-0.5	665
13	159169	159031	GTCATATAGT	158765	-1.6	666
13	159169	159031	CTCTTAGTTG	158970	-0.5	667
13	159305	159218	GTCATATAGT	158765	-1.6	668
13	159305	159218	CTCTTAGTTG	158970	-0.5	669
13	164183	164333	GAAGCCTGTT	163844	1.1	670
13	164208	164283	GAAGCCTGTT	163844	1.1	671
13	228845	228932	TCTATAGCAA	228936	0.8	672
13	283258	283336	TGCGCAAGTC	283795	0.5	673
13	283982	284069	TGCGCAAGTC	283795	0.5	674
13	297937	298063	CCTTTCTGAA	297985	0.8	675
13	298096	298180	CCTTTCTGAA	297985	0.8	676
13	298249	298411	CCTTTCTGAA	297985	0.8	677
13	298310	298388	CCTTTCTGAA	297985	0.8	678
13	340745	340844	GGTTCCGGTA	341196	0.8	679
13	350254	350341	GAAAAGGTCA	350573	1.1	680
13	362701	362827	TTTTTCTTAA	363037	0.5	681
13	511314	511566	TTTCCTATAA	511751	11.5	682
13	511387	511552	TTTCCTATAA	511751	11.5	683
13	511522	511291	CAATGGCCCA	511751	-2.7	684
13	511694	511772	TTTCCTATAA	511751	11.5	685
13	511752	511827	TTTCCTATAA	511751	11.5	686
13	511887	511809	CAATGGCCCA	511751	-2.7	687
13	512285	512204	CAATGGCCCA	511751	-2.7	688
13	552254	552167	GGCAACAGCA	552531	-1.1	689
13	552267	552105	GGCAACAGCA	552531	-1.1	690
13	652875	652749	CCAGAAGGAG	652873	-1.3	691

Table 6, cont.

13	652993	652891	CCAGAAGGAG	652873	-1.3	692
13	653135	652913	CCAGAAGGAG	652873	-1.3	693
13	653340	653232	CCAGAAGGAG	652873	-1.3	694
13	653510	653315	CCAGAAGGAG	652873	-1.3	695
13	754016	753848	GCTGCCAGAC	753413	-24.5	696
13	804354	804474	GTGGGAAAGG	804600	1.6	697
13	826412	826493	GCAATACTAT	826521	0.5	698
13	841805	841883	AATTAACACC	842122	0.8	699
13	880653	880446	CGCAGGTTAC	880121	-0.5	700
14	59970	59880	AGTGACGATG	60143	-0.5	701
14	60135	60057	AGTGACGATG	60143	-0.5	702
14	60190	60025	AGTGACGATG	60143	-0.5	703
14	60296	60203	AGTGACGATG	60143	-0.5	704
14	60321	60183	AGTGACGATG	60143	-0.5	705
14	60428	60353	AGTGACGATG	60143	-0.5	706
14	106708	106789	GCAGAAGAAC	106358	0.8	707
14	107444	107585	GATACCTTCA	108068	0.5	708
14	107496	107574	GATACCTTCA	108068	0.5	709
14	187673	187517	GGTTTTAAGT	187177	-14.7	710
14	282280	282193	TTCACCCTTC	282463	-2.1	711
14	335847	335772	GTTTGACCTA	335512	-0.5	712
14	335899	335746	GTTTGACCTA	335512	-0.5	713
14	336012	335913	GTTTGACCTA	335512	-0.5	714
14	350723	350843	CATCAGCAAC	350938	3.5	715
14	412155	412074	AAGGCTAATG	412050	-0.5	716
14	479523	479346	GCAGGAGAAG	479112	-1.1	717
14	622639	622558	TGTCTGGTGT	622376	-0.8	718
14	622840	622741	TGTCTGGTGT	622376	-0.8	719

Table 6, cont.

14	622856	622757	TGTCTGGTGT	622376	-0.8	720
14	662086	661969	TGTTTATAAA	661712	-0.8	721
14	662160	662001	TGTTTATAAA	661712	-0.8	722
15	31894	31984	AAAAGTCATT	32081	0.8	723
15	33000	33075	TAGTTTTGTC	33475	1.1	724
15	33062	33137	TAGTTTTGTC	33475	1.1	725
15	33183	33333	TAGTTTTGTC	33475	1.1	726
15	33789	33876	TAGTTTTGTC	33475	1.1	727
15	36175	35998	AAATTCAAAA	35952	-0.5	728
15	43365	43473	TTTTCCAAAA	43887	0.5	729
15	242607	242691	TTTGCTTGGT	242743	0.5	730
15	242744	242828	TTTGCTTGGT	242743	0.5	731
15	255172	255268	TGGTGTTGTC	255542	6.7	732
15	255257	255119	GATTTAAACT	254749	-2.9	733
15	274560	274449	ATGCTCGGCT	274180	-2.1	734
15	274734	274629	ATGCTCGGCT	274180	-2.1	735
15	304341	304449	AGTTTTCCTG	304814	0.5	736
15	304815	304920	AGTTTTCCTG	304814	0.5	737
15	305120	305303	AGTTTTCCTG	304814	0.5	738
15	305131	305242	AGTTTTCCTG	304814	0.5	739
15	316395	316263	AATGCTCCAG	316173	-1.9	740
15	372184	372049	GCTTTGCTAA	372381	-0.5	741
15	418057	417958	ACGAAAATCC	417612	-0.8	742
15	431735	431849	TCTTGAAAAG	432323	1.3	743
15	431911	431989	TCTTGAAAAG	432323	1.3	744
15	449127	449040	AAGGAGACAC	448625	-0.5	745
15	517364	517442	TTTCAGGCAA	517833	1.1	746
15	517380	517467	TTTCAGGCAA	517833	1.1	747

Table 6, cont.

15	544520	544625	CTATATATCA	544531	0.5	748
15	571039	571222	GATGGAATAG	571211	0.5	749
15	571131	571281	GATGGAATAG	571211	0.5	750
15	649200	649104	GATAACAAAA	649003	-4.0	751
15	671181	671070	AGCATCGGTG	671550	-1.1	752
15	671231	671051	AGCATCGGTG	671550	-1.1	753
15	712664	712589	GGACAATCAG	712375	-1.1	754
15	727390	727471	TCTGTCGAAA	727713	1.1	755
15	792336	792480	ACGGAAAAGA	792535	0.8	756
15	797555	797462	GGTGGATTCT	797959	-2.7	757
15	803470	803569	CCGGTTACTA	803664	1.3	758
15	832327	832423	AGCGTCCTCA	832421	1.9	759
15	832422	832539	AGCGTCCTCA	832421	1.9	760
15	842430	842349	ATTCGTTCTA	841971	-2.1	761
15	877678	877585	ATCGTTTTAT	877140	-9.1	762
15	888762	888978	ATGGTGGCGT	889194	1.6	763
15	969383	969500	TTTCCAGAAT	969885	0.5	764
15	969499	969601	TTTCCAGAAT	969885	0.5	765
15	969836	969956	TTTCCAGAAT	969885	0.5	766
15	969983	970091	TTTCCAGAAT	969885	0.5	767
15	970096	970255	TTTCCAGAAT	969885	0.5	768
15	970226	970112	TGGACAATGT	970608	-0.5	769
15	970302	970155	TGGACAATGT	970608	-0.5	770
15	970877	970796	TGGACAATGT	970608	-0.5	771
15	971249	971087	TGGACAATGT	970608	-0.5	772
15	1003938	1004028	CGATGAGAAG	1004370	1.3	773
15	1004147	1004429	CGATGAGAAG	1004370	1.3	774
15	1004235	1004337	CGATGAGAAG	1004370	1.3	775

Table 6, cont.

15	1004376	1004508	CGATGAGAAG	1004370	1.3	776
15	1009895	1009808	GTACCTCATT	1009390	-2.1	777
16	74996	74918	TTCGATATGG	74459	-1.1	778
16	75015	74868	TTCGATATGG	74459	-1.1	779
16	85534	85435	GGACTGTGTA	85036	-1.1	780
16	85580	85403	GGACTGTGTA	85036	-1.1	781
16	188512	188308	AGCAGGAGTT	188350	-2.1	782
16	188701	188608	AGCAGGAGTT	188350	-2.1	783
16	188796	188703	AGCAGGAGTT	188350	-2.1	784
16	188819	188579	AGCAGGAGTT	188350	-2.1	785
16	198589	198736	AAACCGTCCC	199141	1.3	786
16	228157	228250	CATTGGTACT	228728	0.8	787
16	280116	279999	GACTTCTTTC	279670	-0.5	788
16	458794	459001	AAATTGAGAT	459472	1.3	789
16	517452	517350	ATGGCCGTAG	516909	-0.8	790
16	560637	560517	AATTGACGAA	560169	-0.8	791
16	560761	560566	AATTGACGAA	560169	-0.8	792
16	581918	581792	ACTATATGTT	582230	-0.5	793
16	582098	582020	ACTATATGTT	582230	-0.5	794
16	582098	582020	TTGATGATTT	582360	-0.8	795
16	582213	582105	ACTATATGTT	582230	-0.5	796
16	582213	582105	TTGATGATTT	582360	-0.8	797
16	589101	589215	GATATATCAT	589647	0.5	798
16	589142	589274	GATATATCAT	589647	0.5	799
16	589341	589449	GATATATCAT	589647	0.5	800
16	589611	589695	GATATATCAT	589647	0.5	801
16	623391	623466	TCCGAATATG	623521	5.1	802
16	653748	653949	AAGTTGAACA	654275	17.9	803

Table 6, cont.

16	653774	654002	AAGTTGAACA	654275	17.9		804
16	678614	678413	AACTTAGTTT	677921	-2.7		805
16	704776	704680	ATGTGTGATT	704380	-1.6		806
16	744464	744635	AGAATTGATT	744406	0.5		807
16	829798	829717	CCAATGGTTC	830109	-1.3		808
16	870135	870042	GGATATTACC	869622	-2.7		809
16	870238	870088	GGATATTACC	869622	-2.7		810
16	883373	883556	TGACATTCTT	883666	6.4		811

References

Archer, J. E., Vega, L. R., and Solomon, F. (1995). Rbl2p, a yeast protein that binds to beta-tubulin and participates in microtubule function in vivo. Cell *82*, 425-434.

Bajwa, W., Torchia, T. E., and Hopper, J. E. (1988). Yeast regulatory gene GAL3: carbon regulation; UASGal elements in common with GAL1, GAL2, GAL7, GAL10, GAL80, and MEL1; encoded protein strikingly similar to yeast and Escherichia coli galactokinases. Mol Cell Biol *8*, 3439-3447.

Basrai, M. A., Kingsbury, J., Koshland, D., Spencer, F., and Hieter, P. (1996). Faithful chromosome transmission requires Spt4p, a putative regulator of chromatin structure in Saccharomyces cerevisiae. Mol Cell Biol *16*, 2838-2847.

Bishop, J. O., Morton, J. G., Rosbash, M., and Richardson, M. (1974). Three abundance classes in HeLa cell messenger RNA. Nature *250*, 199-204.

Burkholder, A. C., and Hartwell, L. H. (1985). The yeast alpha-factor receptor: structural properties deduced from the sequence of the STE2 gene. Nucleic Acids Res *13*, 8463-8475.

Chambers, A., Tsang, J. S., Stanway, C., Kingsman, A. J., and Kingsman, S. M. (1989). Transcriptional control of the Saccharomyces cerevisiae PGK gene by RAP1. Mol Cell Biol *9*, 5516-5524.

Denis, C. L., Ferguson, J., and Young, E. T. (1983). mRNA levels for the fermentative alcohol dehydrogenase of Saccharomyces cerevisiae decrease upon growth on a nonfermentable carbon source. J Biol Chem *258*, 1165-1171.

Dick, T., Surana, U., and Chia, W. (1996). Molecular and genetic characterization of SLC1, a putative Saccharomyces cerevisiae homolog of the metazoan cytoplasmic dynein light chain1. Mol Gen Genet *251*, 38-43.

El-Deiry, W. S., Tokino, T., Velculescu, V. E., Levy, D. B., Parsons, R., Trent, J. M., Lin, D., Mercer, W. E., Kinzler, K. W., and Vogelstein, B. (1993). WAF1, a potential mediator of p53 tumor suppression. Cell *75*, 817-825.

Elledge, S. J., and Davis, R. W. (1989). DNA damage induction of ribonucleotide reductase. Mol Cell Biol *9*, 4932-4940.

Goffeau, A., Barrell, B.G., Bussey, H., Davis, R.W., Dujon, B., Feldmann, H.,

Galibert, F., Hoheisel, J.D., Jacq, C., Johnston, M., Louis, E.J., Mewes, H.W., Murakami, Y., Philippsen, P., Tettelin, H., and Oliver, S.G. (1996). Life with 6000 genes. Science *274*, 546-567.

Gottschling, D. E., Aparicio, O. M., Billington, B. L., and Zakian, V. A. (1990). Position effect at S. cerevisiae telomeres: reversible repression of Pol II transcription. Cell *63*, 751-762.

Hagen, D. C., McCaffrey, G., and Sprague, G. F., Jr. (1986). Evidence the yeast STE3 gene encodes a receptor for the peptide pheromone a factor: gene sequence and implications for the structure of the presumed receptor. Proc Natl Acad Sci U S A *83*, 1418-1422.

Hereford, L. M., and Rosbash, M. (1977). Number and distribution of polyadenylated RNA sequences in yeast. Cell *10*, 453-462.

Irniger, S., and Braus, G. H. (1994). Saturation mutagenesis of a polyadenylation signal reveals a hexanucleotide element essential for mRNA 3' end formation in Saccharomyces cerevisiae. Proc Natl Acad Sci U S A *91*, 257-261.

Iyer, V., and Struhl, K. (1996). Absolute mRNA levels and transcriptional initiation rates in Saccharomyces cerevisiae. Proc Natl Acad Sci U S A *93*, 5208-5212.

Kurjan, J., and Herskowitz, I. (1982). Structure of a yeast pheromone gene (MF alpha): a putative alpha-factor precursor contains four tandem copies of mature alpha-factor. Cell *30*, 933-943.

Leeds, P., Peltz, S. W., Jacobson, A., and Culbertson, M. R. (1991). The product of the yeast UPF1 gene is required for rapid turnover of mRNAs containing a premature translational termination codon. Genes Dev *5*, 230 3-2314.

Lewin, B. (1980). Gene Expression *2*, (New York, New York: John Wiley and Sons), pp. 694-727.

McAlister, L., and Holland, M. J. (1982). Targeted deletion of a yeast enolase structural gene. Identification and isolation of yeast enolase isozymes. J Biol Chem *257*, 7181-7188.

Michaelis, S., and Herskowitz, I. (1988). The a-factor pheromone of Saccharomyces cerevisiae is essential for mating. Mol Cell Biol *8*, 1309-1318.

Mushegian, A. R., and Koonin, E. V. (1996). A minimal gene set for cellular life

derived by comparison of complete bacterial genomes. Proc. Natl. Acad. Sci. USA *93*, 10268-10273.

Nguyen, C., Rocha, D., Granjeaud, S., Baldit, M., Bernard, K., Naquet, P., and Jordan, B. R. (1995). Differential gene expression in the murine thymus assayed by quantitative hybridization of arrayed cDNA clones. Genomics *29*, 207-216.

Nishizawa, M., Araki, R., and Teranishi, Y. (1989). Identification of an upstream activating sequence and an upstream repressible sequence of the pyruvate kinase gene of the yeast Saccharomyces cerevisiae. Mol Cell Biol *9*, 442-451.

Renauld, H., Aparicio, O. M., Zierath, P. D., Billington, B. L., Chhablani, S. K., and Gottschling, D. E. (1993). Silent domains are assembled continuously from the telomere and are defined by promoter distance and strength, and by SIR3 dosage. Genes Dev *7*, 1133-1145.

Rose, M. D., Winston, F., and P. Hieter. (1990). Methods in Yeast Genetics. (Cold Spring Harbor, New York: Cold Spring Harbor Laboratory Press), pp. 177.

Schena, M., Shalon, D., Davis, R. W., and Brown, P. O. (1995). Quantitative monitoring of gene expression patterns with a complementary DNA microarray. Science *270*, 467-470.

Schmitt, H. D., Ciriacy, M., and Zimmermann, F. K. (1983). The synthesis of yeast pyruvate decarboxylase is regulated by large variations in the messenger RNA level. Mol Gen Genet *192*, 247-252.

Sikorski, R. S., and Hieter, P. (1989). A system of shuttle vectors and yeast host strains designed for efficient manipulation of DNA in Saccharomyces cerevisiae. Genetics *122*, 19-27.

Singh, A., Chen, E. Y., Lugovoy, J. M., Chang, C. N., Hitzeman, R. A., and Seeburg, P. H. (1983). Saccharomyces cerevisiae contains two discrete genes coding for the alpha-factor pheromone. Nucleic Acids Res *11*, 4049-4063.

Smith, M. M., and Murray, K. (1983). Yeast H3 and H4 histone messenger RNAs are transcribed from two non-allelic gene sets. J Mol Biol *169*, 641-661.

St John, T. P., and Davis, R. W. (1979). Isolation of galactose-inducible DNA sequences from Saccharomyces cerevisiae by differential plaque filter hybridization. Cell *16*, 443-452.

Velculescu, V. E., Zhang, L., Vogelstein, B., and Kinzler, K. W. (1995). Serial analysis of gene expression. Science *270*, 484-487.

Zaret, K. S., and Sherman, F. (1982). DNA sequence required for efficient transcription termination in yeast. Cell *28*, 563-573.

CLAIMS

1. An isolated DNA molecule comprising a coding sequence of a yeast gene selected from the group of NORF genes comprising a SAGE tag as shown in SEQ ID NOS:67-811.

2. The isolated DNA molecule of claim 1 which is involved in cell cycle progression.

3. The isolated DNA molecule of claim 2 wherein expression of the NORF gene varies by at least 10% between any two phases of the cell cycle selected from the group consisting of: log phase, S phase, and G2/M.

4. The isolated DNA molecule of claim 2 wherein expression of the NORF gene varies by at least 25% between any two phases of the cell cycle selected from the group consisting of: log phase, S phase, and G2/M.

5. The isolated DNA molecule of claim 2 wherein expression of the NORF gene varies by at least 50% between any two phases of the cell cycle selected from the group consisting of: log phase, S phase, and G2/M.

6. The isolated DNA molecule of claim 2 wherein expression of the NORF gene varies by at least 100% between any two phases of the cell cycle selected from the group consisting of: log phase, S phase, and G2/M.

7. The isolated DNA molecule of claim 2 wherein expression of the NORF gene varies by a statistically significant difference (greater than 95% confidence level) between any two phases of the cell cycle selected from the group consisting of: log phase, S phase, and G2/M.

8. The isolated DNA molecule of claim 7 wherein the NORF gene is selected from the group consisting of NORF Nº 1, 2, 4, 5, 6, 17, 25, and 27.

9. The isolated DNA molecule of claim 2 wherein the NORF gene is not expressed in at least one phase of the cell cycle selected from the group consisting of: log phase, S phase, and G2/M.

10. The isolated DNA molecule of claim 1 which is genomic.

11. The isolated DNA molecule of claim 1 which is cDNA.

12. A method of using NORF genes to affect the cell cycle, comprising the

step of:

administering to a cell an isolated DNA molecule comprising a coding sequence of a NORF gene whose expression varies by at least 10% between any two phases of the cell cycle selected from the group consisting of log phase, S phase, and G2/M.

13. The method of claim 12 wherein the cell is a yeast cell.

14. The method of claim 12 wherein the cell is a fungal cell.

15. The method of claim 12 wherein the cell is a mammalian cell.

16. The method of claim 12 wherein the NORF gene is selected from the group consisting of NORF Nº 1, 2, 4, 5, 6, 17, 25, and 27.

17. A method for screening candidate antifungal drugs, comprising the steps of:

contacting a test substance with a yeast cell;

monitoring expression of a NORF gene whose expression varies by at least 10% between any two phases of the cell cycle selected from the group consisting of log phase, S phase, and G2/M, wherein a test substance which modifies the expression of the yeast gene is a candidate antifungal drug.

18. The method of claim 17 wherein the NORF gene is selected from the group consisting of NORF Nº 1, 2, 4, 5, 6, 17, 25, and 27.

19. A method for identifying human genes which are involved in cell cycle progression, comprising the steps of:

contacting human DNA with a probe which comprises at least 10 contiguous nucleotides of a NORF gene whose expression varies by at least 10% between any two phases of the cell cycle selected from the group consisting of log phase, S phase, and G2/M phase, wherein a human DNA sequence which hybridizes to the probe is identified as a sequence of a candidate human gene which is involved in cell cycle progression.

20. The method of claim 19 wherein the NORF gene is selected from the group consisting of NORF Nº 1, 2, 4, 5, 6, 17, 25, and 27.

21. A probe comprising at least 14 contiguous nucleotides of a NORF gene comprising a SAGE tag as shown in SEQ ID NOS:67-811.

22. The probe of claim 21 wherein expression of the NORF gene varies by at least 10% between any two phases of a cell cycle selected from the group consisting of: log phase, S phase, and G2/M.

23. The probe of claim 22 wherein expression of the NORF gene varies by at least 25% between any two phases of the cell cycle selected from the group consisting of: log phase, S phase, and G2/M.

24. The probe of claim 22 wherein expression of the NORF gene varies by at least 50% between any two phases of the cell cycle selected from the group consisting of: log phase, S phase, and G2/M.

25. The probe of claim 22 wherein expression of the NORF gene varies by at least 100% between any two phases of the cell cycle selected from the group consisting of: log phase, S phase, and G2/M.

26. The probe of claim 22 wherein the NORF gene is not expressed in at least one phase of the cell cycle selected from the group consisting of: log phase, S phase, and G2/M.

27. The probe of claim 22 wherein expression of the NORF gene varies by a statistically significant difference (greater than 95% confidence level) between any two phases of the cell cycle selected from the group consisting of: log phase, S phase, and G2/M.

28. The probe of claim 22 wherein the gene is selected from the group consisting of NORF Nº 1, 2, 4, 5, 6, 17, 25, and 27.

29. The method of claim 17 wherein said step of monitoring expression is performed using nucleic acid molecules which are immobilized on a solid support.

30. The method of claim 29 wherein the nucleic acid molecules are in on array.

31. The method of claim 19 wherein a probe which comprises a portion of the NORF gene is in an array on a solid support.

32. An array of probes on a solid support wherein at least one probe comprises at least 14 contiguous nucleotides of a NORF gene comprising a SAGE tag as shown in SEQ ID NOS:67-811.

33. The array of claim 32 wherein the at least one NORF gene is involved

in cell cycle progression.

34. The array of claim 32 wherein the NORF gene is selected from the group consisting of NORF No. 1, 2, 4, 5, 6, 17, 25, and 27.

35. The array of claim 32 which comprises at least 100 probes of distinct sequence.

36. The array of claim 32 which comprises at least 500 probes of distinct sequence.

37. The array of claim 32 which comprises at least 1,000 probes of distinct sequence.

38. A method of identifying a candidate drug as a member of a class of drugs having a characteristic effect on gene expression in a yeast cell, comprising the steps of:

contacting a yeast cell with a candidate drug; and

monitoring expression in the yeast cell of at least one NORF gene whose expression is affected by the class of drugs, wherein detection of a difference in expression of the at least one NORF gene in the yeast cell relative to expression in the absence of the candidate drug identifies the candidate drug as a member of the class of drugs.

39. The method of claim 38 wherein the step of monitoring expression is performed using nucleic acid molecules which are immobilized on a solid support.

40. The method of claim 39 wherein the nucleic acid molecules are in an array.

41. The method of claim 38 wherein expression of two or more NORF genes is monitored.

42. The probe of claim 21 which is immobilized on a solid support.

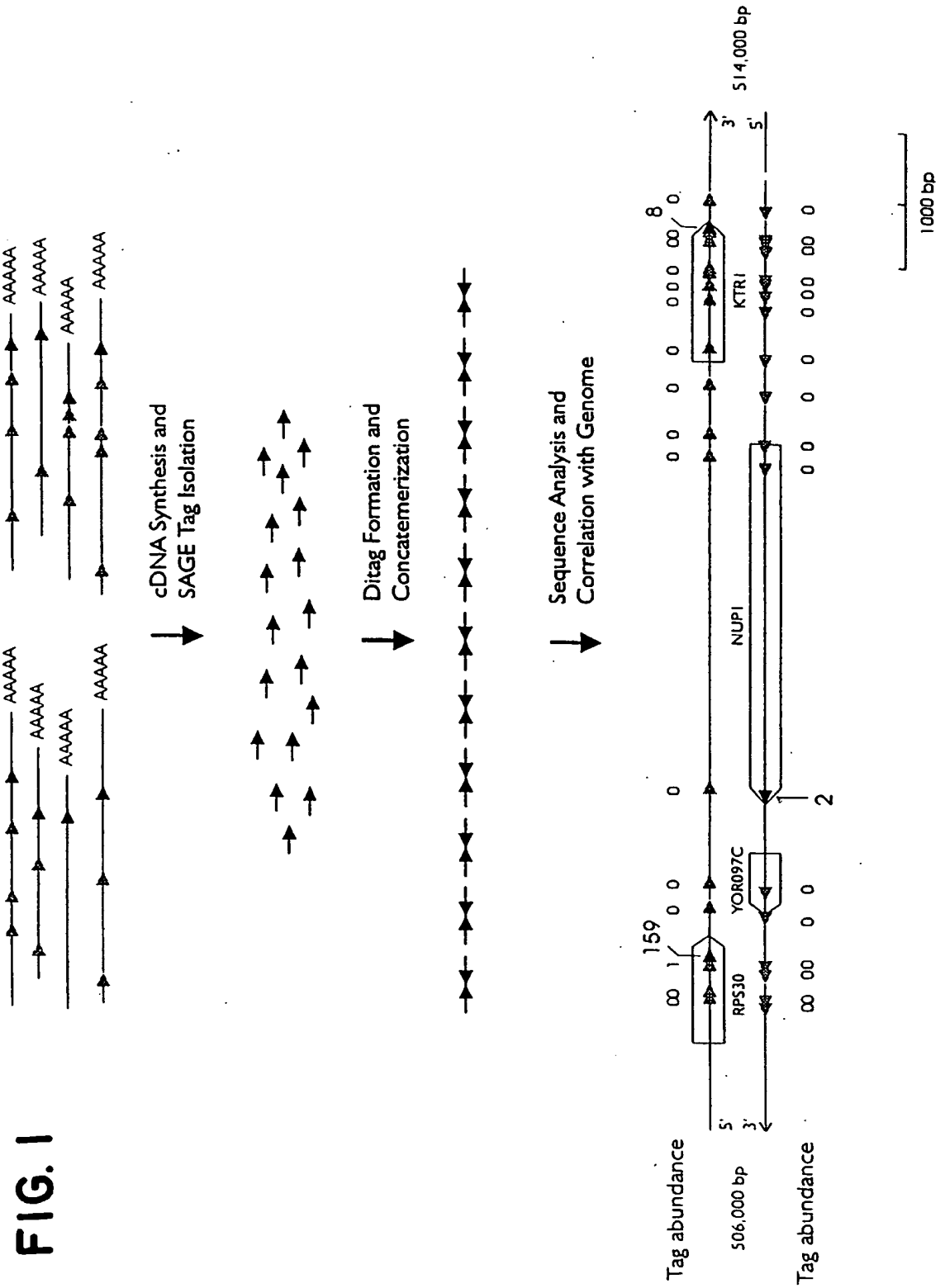

AAAAA
cDNA Synthesis and
SAGE Tag Isolation
Ditag Formation and
Concatemerization
Sequence Analysis and
Correlation with Genome
514,000 bp
506,000 bp
1000 bp
KTR1
NUP1
YOR097C
RPS30
159
8
2
Tag abundance
Tag abundance

FIG. 1

FIG. 2

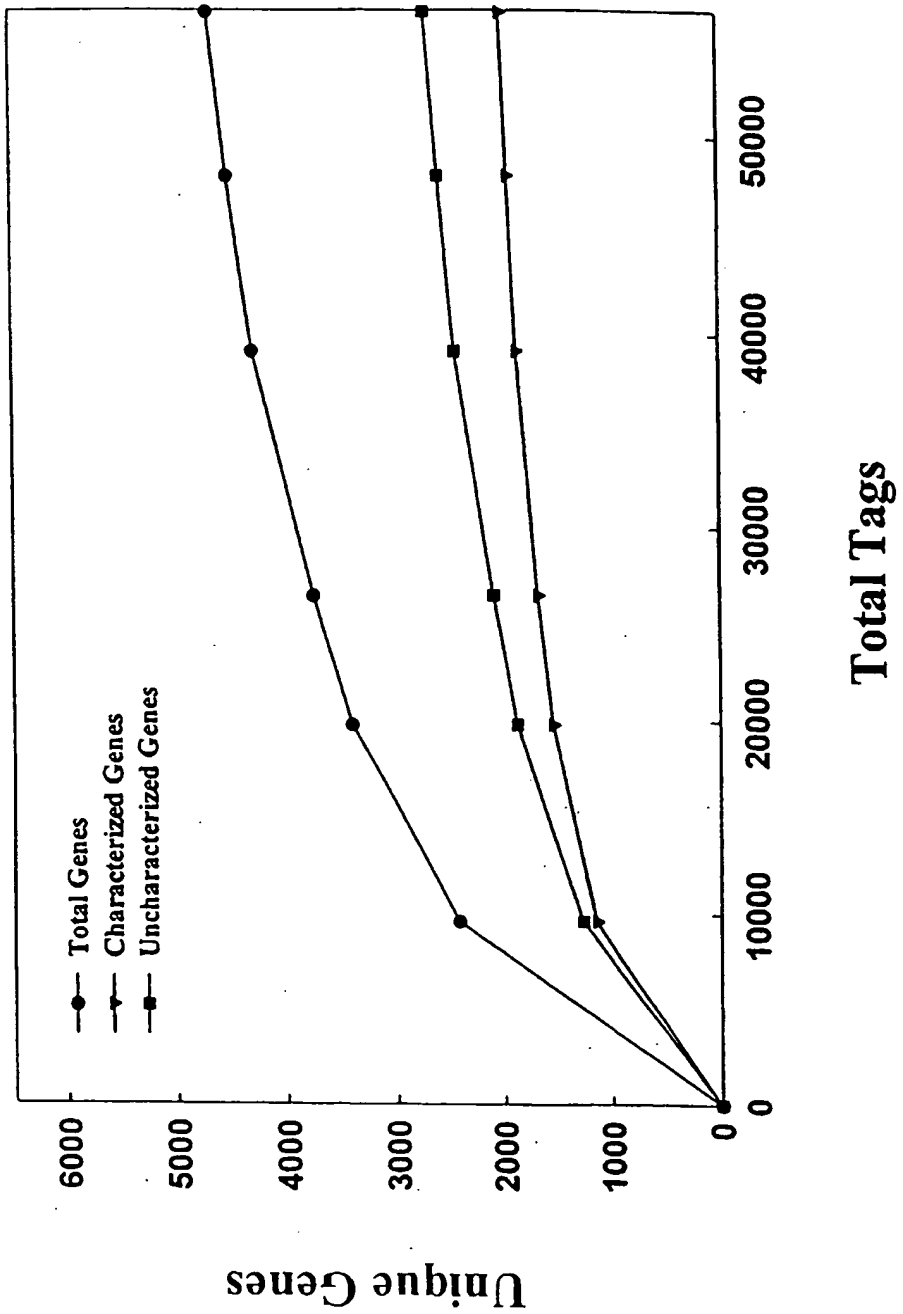

Total Genes
Characterized Genes
Uncharacterized Genes
Unique Genes
Total Tags
0
1000
2000
3000
4000
5000
6000
0
10000
20000
30000
40000
50000

FIG. 3A

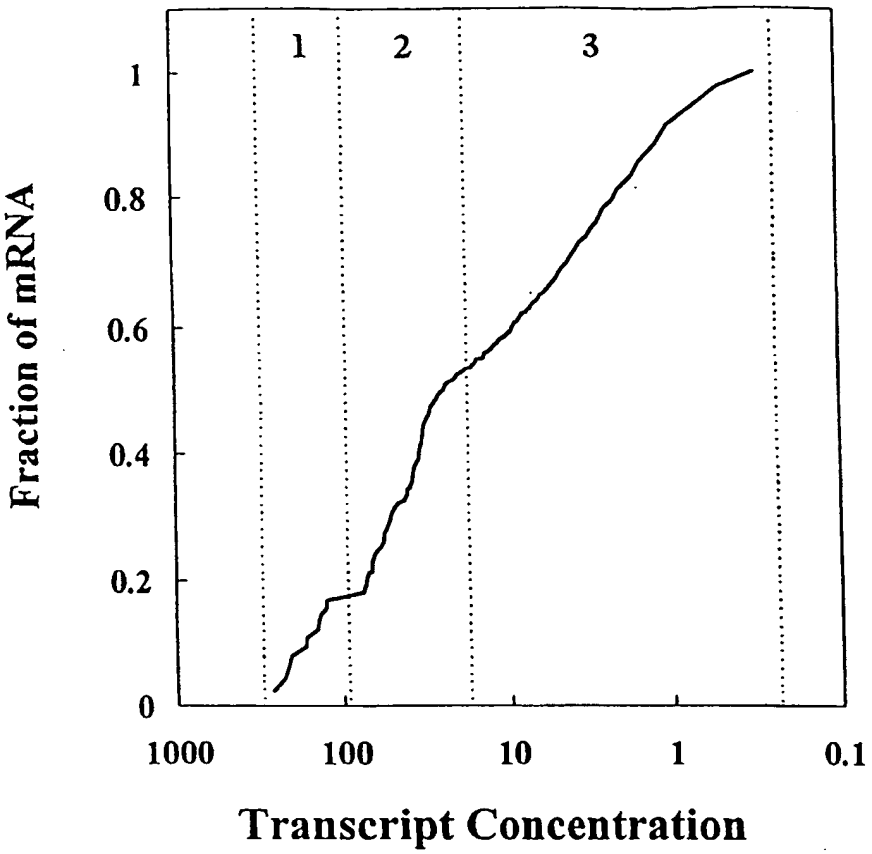


FIG. 3B

Component	Virtual Rot (SAGE) %mRNA	Virtual Rot (SAGE) Copies/cell	Rot (Reassociation) %mRNA	Rot (Reassociation) Copies/cell
1	17	180	23	200
2	38	40	51	30
3	45	2.5	26	1.5

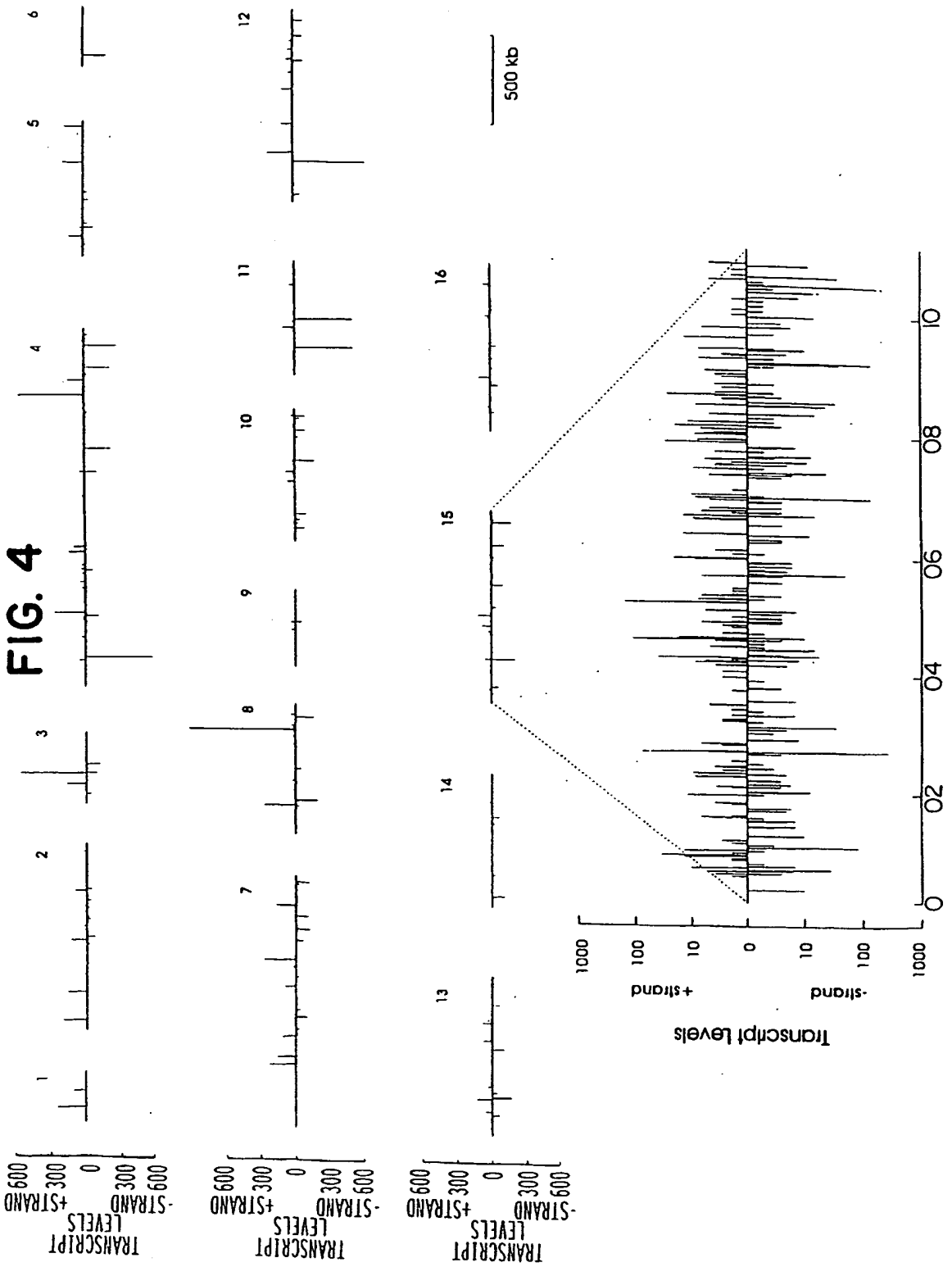
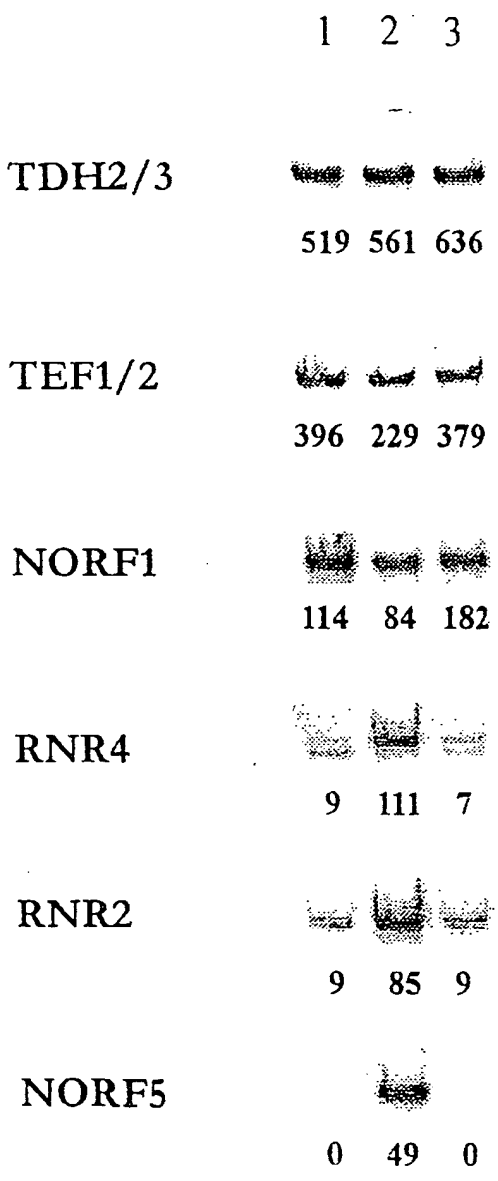

500 kb
Transcript Levels
-strand
+strand
1000
100
10
0
10
100
1000
0
02
04
06
08
10
TRANSCRIPT LEVELS
-STRAND
+STRAND
600
300
0
300
600
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16

FIG. 4

FIG. 5


1 2 3
TDH2/3
519 561 636
TEF1/2
396 229 379
NORF1
114 84 182
RNR4
9 111 7
RNR2
9 85 9
NORF5
0 49 0